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## English

Writing

Thinking Kids ${ }^{\text {TM }}$
Carson-Dellosa Publishing LLC
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## READING



## Spelling: Digraphs

A digraph is two consonants pronounced as one sound.

## Examples: sh as in shell, ch as in chew, th as in thin

Directions: Write sh, ch, or th to complete each word below.

1. $\qquad$ reaten
2. $\qquad$ allenge
3. $\qquad$ ill
4. peri $\qquad$
5. $\qquad$ ock
6. $\qquad$ ield
7. $\qquad$ iver
8. $\qquad$ art
9. $\qquad$ aw
10. $\qquad$ rive


Directions: Complete these sentences with a word, or form of the word, from the list above.

1. A trip to the South Pole would really be a (ch) $\qquad$ .
2. The ice there never (th) $\qquad$ because the temperature averages $-50^{\circ} \mathrm{C}$.
3. How can any living thing (th) $\qquad$ or even live when it's so cold?
4. With 6 months of total darkness and those icy temperatures, any plants would soon
(sh) $\qquad$ .
5. Even the thought of that numbing cold makes me (sh) $\qquad$ .
6. The cold and darkness (th) $\qquad$ the lives of explorers.
7. The explorers take along maps and (ch) $\qquad$ to help them find their way.
8. Special clothing helps protect and (sh) $\qquad$ them from the cold.
9. Still, the weather must be a (sh) $\qquad$ at first.
10. Did someone leave a door open? Suddenly, I feel a (ch) $\qquad$ .

## Spelling: Listening for Sounds

Not every word spelled with ow is pronounced ou as in powder and however. In the same way, not every word spelled with ou is pronounced ou as in amount and announce. The letters ou can be pronounced a number of ways.

Directions: Write the word from the box that rhymes with each of the words or phrases below. Some words are used twice.


| doubt <br> choice | amount <br> poison | avoid <br> powder | annoy <br> soil | announce <br> however |
| :--- | :--- | :--- | :--- | :--- |

joys in $\qquad$ two counts
shout $\qquad$ loyal
crowd her $\qquad$
a boy $\qquad$
employed $\qquad$ Joyce $\qquad$
now never $\qquad$ a count $\qquad$
voice $\qquad$ employ $\qquad$
a bounce $\qquad$ Iouder $\qquad$
enjoyed $\qquad$ trout

## Spelling: The J and Ch Sounds

The $\mathbf{j}$ sound can be spelled with a $\mathbf{j}$ as in $\mathbf{j u m p}$, with a $\mathbf{g}$ before $\mathbf{e}$ or $\mathbf{i}$ as in agent and giant, or with ge at the end of a word as in page.

The ch sound is often spelled with the letters ch but can also be spelled with at before $\mathbf{u}$, as in nature.


Directions: Use words from the box to complete the exercises below.

| statue <br> furniture | imagination <br> stranger | jealous <br> project | future <br> justice | arrangements <br> capture |
| :--- | :--- | :--- | :--- | :--- |

1. Say each word, and then write it in the correct row, depending on whether it has the j or ch sound.
j $\qquad$
ch $\qquad$ $\xrightarrow{ }$ $\qquad$
2. Write a word from the box that belongs to the same word family as each word below. imagine $\qquad$
strangely $\qquad$ jus $\dagger$

Directions: Complete each sentence with a word containing the given sound.

1. What is your group's ( $\mathbf{j}$ ) $\qquad$ this week?
2. There is $a(\mathbf{c h})$ $\qquad$ of George Washington in front of our school.
3. She used her ( $\mathbf{j}$ ) $\qquad$ to solve the problem.
4. My sister keeps rearranging the (ch) $\qquad$ in our room.

## Spelling: Words with Silent Letters

Some letters in words are not pronounced, such as the sin island, the $\boldsymbol{t}$ in listen, the $\mathbf{k}$ in knee, the $\mathbf{h}$ in hour, and the $\mathbf{w}$ in write.

Directions: Use words from the box to complete the exercises below.

| wrinkled <br> rhyme | honest <br> exhaust | aisle <br> glisten | knife <br> knowledge | wrist <br> wrestle |
| :--- | :--- | :--- | :--- | :--- |

1. Write each word beside its silent letter. Two words have two silent letters-write them twice.

S $\qquad$
$\dagger$ $\qquad$
$\qquad$
h $\qquad$
$\qquad$
$\qquad$
w $\qquad$
$\qquad$
$\qquad$
$\qquad$
k $\qquad$
$\qquad$
2. Write in the missing letter or letters for each word.
$\qquad$ res $\qquad$ le ex__ aust $\qquad$ nife
glis $\qquad$
ai $\qquad$ le
$\qquad$ nowledge
$\qquad$ rinkle
r $\qquad$ yme
$\qquad$ ones $\dagger$
$\qquad$ rist

Directions: Complete each sentence with a word that has the given silent letter. Use each word only once.

1. He always tells the truth. He's very (h) $\qquad$ .
2. I like (s) $\qquad$ seats in airplanes.
3. I need a sharper ( $\mathbf{k}$ ) $\qquad$ to cut this bread.
4. I think a long hike might (h) $\qquad$ me.
5. Did you sleep in that shirt? It is so (w) $\qquad$
6. The snow seemed to ( $\mathbf{t}$ ) $\qquad$ in the sunlight.
7. To play tennis, you need a strong (w) $\qquad$ .


## Spelling: Syllables

A syllable is a part of a word with only one vowel sound. Some words have only one syllable, like cat, leaf, and ship. Some words have two or more syllables. Be-lief and trac-tor have two syllables, to-ge-ther and ex-cel-lent have three syllables, and con-ver-sa-tion has four syllables. Some words can have six or more syllables! The word ex-tra-ter-res-tri-al, for example, has six syllables.

Directions: Follow the instructions below.


1. Count the syllables in each word below, and write the number of syllables on the line.
a. badger $\qquad$ f. grease
b. location $\qquad$ g. relationship
c. award $\qquad$ h. communication $\qquad$
d. national $\qquad$ i. government
e. necessary $\qquad$ j. Braille
2. Write four words with four syllables each in the blanks.
a. $\qquad$ c. $\qquad$
b. $\qquad$ d. $\qquad$
3. Write one word with five syllables and one with six syllables. If you need help, use a dictionary.

Five syllables: $\qquad$
Six syllables: $\qquad$

## Writing: Sounding Out Syllables

Directions: Use words from the box to complete the exercises below.

| decision <br> subtraction | division <br> confusion | pressure <br> multiplication | addition <br> social | ancient <br> correction |
| :--- | :--- | :--- | :--- | :--- |

1. Write each word in the row showing the correct number of syllables.

Two:
Three: $\qquad$
$\qquad$
$\qquad$
$\qquad$
Five: $\qquad$
2. Write in the missing syllables for each word.
 of syllables. Use each word from the box only once.
daily
syllable
decreasing
advantage
title
challenging
election
threaten
shivering
experimenting

## Writing: Word Families

A word family is a group of words based on the same word. For example, playful, playground, and playing are all based on the word play.

Directions: Use words from the box to complete the exercises below.

| decision | division | pressure | addition | create <br> subtraction |
| :--- | :--- | :--- | :--- | :--- |
| confusion | multiplication | social | correction |  |

1. Write the word that belongs to the same word family as each word below.

| correctly | confused |
| :---: | :---: |
| divide | subtracting |
| pressing | society |
| multiply | decide |
| added | creativity |

2. Complete each sentence by writing the correct form of the given word.

Example: Have you (decide) decided what to do? Did you make a (decide) decision yet?

I am (add) $\qquad$ the numbers right now. Would you check my
(add) $\qquad$ ?

This problem has me (confuse) $\qquad$ . Can you clear up my
(confuse) $\qquad$ ?

This is a (press) $\qquad$ problem. We feel (press)
to solve it right away.
Is he (divide) $\qquad$ by the right number? Will you help him with his
(divide) $\qquad$ ?

Try to answer (correct) $\qquad$ .Then, you won't have to make any
(correct) $\qquad$ on your paper later on.

## Writing: Word Families

Directions: Write the word that belongs to the same word family as each word below.

| doubt <br> choice | amount <br> poison | avoid <br> powder | annoy <br> soil | announce <br> however |
| :--- | :--- | :--- | :--- | :--- |


| avoidance | annoyance |
| :---: | :---: |
| doubtful | soiled |
| announcement | poisonous |
| choose | amounted |
| powdery | whenever |

Directions: Complete each sentence by writing the correct form of the given word.
Example: Are you (doubt) doubting my word? You never (doubt) doubted it before.

1. The teacher is (announce) $\qquad$ the next test. Did you hear what he (announce) $\qquad$ ?
2. This stream was (poison) $\qquad$ by a chemical from a factory nearby.
3. Is the chemical (poison) $\qquad$ any other water supply? How many (poison) $\qquad$ does the factory produce?
4. My cat always (annoy) $\qquad$ our dog.
5. Last night, Camie (annoy) $\qquad$ Lucas for hours.

6. I think Carrie is (avoid) $\qquad$ me. Yesterday, she (avoid) $\qquad$ walking home with me.

## Spelling: Double Consonants

When adding endings such as ing and ed to verbs, use the following rule: Double the final consonant of verbs that have short vowel sounds and end with only one consonant. For example, rip becomes ripped, and beg becomes begging. However, do not double the final consonant in words that end in double consonants. For example, rock ends with two consonants, ck. So even though it has a short vowel sound, rock becomes rocked.

Directions: Add ed to the verbs below. Remember, when a verb ends with $\mathbf{e}$, drop the $\mathbf{e}$ before adding an ending (taste, tasting).
 The first one has been done for you.

| top | topped | rip | $\square$ |
| :--- | :--- | :--- | :--- |
| pet | $\square$ | punch | $\square$ |
| sob | $\square$ | rinse | $\square$ |
| brag | $\square$ | stock | $\square$ |
| scrub | $\square$ | lack | $\square$ |
| flip | $\square$ | dent |  |

Directions: Add ing to the verbs below. The first one has been done for you.

| flap | flapping | snack |
| :--- | :--- | :--- |
| scrub | $\square$ | flip |
| stock | $\square$ | rinse |
| dent | $\square$ | brag |
| pet | $\square$ | lack |
| sob | $\square$ | punch |

## Writing: Verb Forms

Directions: In the following story, some of the verbs are missing. Write the proper form of the verbs shown, adding ed or ing when necessary.

Yesterday, I was (brag) $\qquad$ to my brother about how much I (help) $\qquad$ our mother
around the house. I had (scrub) $\qquad$ the kitchen floor, (wipe) $\qquad$ off all the counters, and (rinse) $\qquad$ out the sink. I was (pour)
the dirty water out of the bucket when
our mother came in. She looked around the kitchen and
 (smile) $\qquad$ . "Who did all this work?" she (ask) $\qquad$ .

I was (get) $\qquad$ ready to tell her what I had done when my brother (interrupt) $\qquad$ me. "We both did! We've been (work) $\qquad$ very hard!" he said. "He's not (tell) $\qquad$ the truth!" I said to Mom. "I did everything!" My brother (glare) $\qquad$ at me.
"Is that true?" asked Mom. My brother (look) $\qquad$ at the floor and (nod) $\qquad$ . He was (think) $\qquad$ about all the trouble he would get into. Instead, Mom smiled again. "Well, that's okay," she said. "The rest of the house needs to be (clean) $\qquad$ , too. You can get (start)
$\qquad$ right away!"

## Spelling: Math Plurals

To make most nouns plural, add $\mathbf{s}$. When a noun ends with $\mathbf{s}$, ss, sh, ch, or $\mathbf{x}$, add es: bus-buses, cross-crosses, brush-brushes, church-churches, box-boxes. When a noun ends with a consonant and $\mathbf{y}$, change the $\mathbf{y}$ to $\mathbf{i}$ and add es: berry-berries. For some words, insteading of adding $\mathbf{s}$ or es, the spelling of the word changes: man-men, mouse-mice.


Directions: Write the correct plural or singular form of the words in these math problems. Write whether the problem requires addition (A), subtraction (S), multiplication (M), or division (D). The first one has been done for you.


## Spelling: More Plurals

Remember, in some words, an $\mathbf{f}$ changes to $a \mathbf{v}$ to make the plural form.
Examples: life - lives wife - wives knife - knives leaf - leaves


Directions: Complete these sentences by writing the correct plural form of the given word. Also, circle the spelling errors, and write the words correctly on the lines to the right.

1. The (leaf) $\qquad$ are dry and rinkled.
2. The (knife) $\qquad$ glisened in the sun.
3. I think the (child) $\qquad$ in this school are honist. $\qquad$
4. The (supply) $\qquad$ were stacked in the isle.
5. (mouse) $\qquad$ rimes with twice.
6. Some people feel exausted all their (life) $\qquad$ . $\qquad$
7. The (class) $\qquad$ were trying to gain more knowlege about Olympic athletes.
8. The kittens were wresling in the (bush) $\qquad$ . $\qquad$
9. Jamie nearly broke his rist trying to carry all those
(box) $\qquad$ .
10. Some kings had several (wife) $\qquad$ who new about each other.
11. (Daisy) $\qquad$ are knot expensive. $\qquad$
12. Right your name on both (copy) $\qquad$ . $\qquad$
13. We watched the (monkey) $\qquad$ play on the swings for ours.
14. Do you like (strawberry) $\qquad$ hole or sliced? $\qquad$

## Spelling: Finding Mistakes

Directions: Circle the four spelling mistakes in each paragraph. Then, write the words correctly on the lines below.


Last nite, our family went to a nice restaurant. As we were lookking at the menus, a waiter walked in from the kichen carrying a large tray of food. As he walked by us, he triped, and the tray went flying! The food flew all over our table and all over us, too!

Last week, while my dad was washing the car, our dog Jack dicided to help. He stuck his nose in the pale of soapy water, and it tiped over and soaked him! As he shook himself off, the water from his fur went all over the car. "Look!" Dad laffed. "Jack is doing his part!"

For our next feild trip, my class is going to the zoo. We have been studying about animals in sceince class. I'm very eksited to see the elephants, but my freind Tasha really wants to see the monkeys. She has been to the zoo before, and she says the monkeys are the most fun to watch.
$\qquad$
$\qquad$

It seems the rain will never stop! It has been rainning for seven days now, and the sky is always dark and clowdy. Everyone at school is in a bad mood, because we have to stay inside during resess. Will we ever see the son again?

## Spelling: Finding Mistakes

Directions: Circle the four spelling mistakes in each paragraph. Then, write the misspelled words correctly on the lines below.

According to the newspaper, a man came into the store and stood near a clerk. The clerk was stockking the shelves with watches. Then, the man suddenly grabed several watches and raced out of the store. The clerk shouted, "Stop him! He's robing us!" The police searched for the man, but they still lak a suspect.

Tony always braged about the tricks he could do with his skateboard. One day, he tried to skate up a ramp and jump over three bikes. Well, he landed on the last bike and dentted it. The last I saw Tony, he was runing down the street. The owner of the bike was chassing him.

One day, I was peting my dog when I felt something sticky in his fur. It was time for a bath! I put him in a tub of water and scrubed as best I could. Then, I rinced the soap out of his fur. He jumped out of the tub, soaking wet, and rolled in some dirt. I sighed and draged him back into the tub. This dog makes me tired sometimes!
$\qquad$

Last night, my little sister started braging about how fast she could wash the dishes. I told her to prove it. (It was my turn to do the dishes.) She started fliping the dishes around in the sink, washing them as fast as she could. I noticed she was rinseing only about half of them. Finally, it happened. She droped a cup on the floor. Dad made me finish the dishes, but at least she did some of them.

## Spelling: Finding Mistakes

Directions: Circle the spelling mistakes in each paragraph. Write the words correctly on the lines below.

Some poisions that kill insects can also threten people. Often these pouders and sprays are used on corn, beans, and other plants we eat. Unless these plants are well scrubed, we may eat a small amount of the poison.


Sometimes the poison is put into the soyl and moves into the plant through its roots. Then, it stays in the plant in spyte of all our rinseing. All we can do is avoyd eating food that has been grown this way. Howver, that also means we have to expect more insects in our food. Its a hard chioce! Some people dout that a little bit of poision will hurt them, while others have made a dicision to grow their own food.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Yesterday, the teacher anownced a new projict. She chalenged us to think of a new arangement for the furnichure in the room. We voated to put the chairs in groups. Then, Brian said it would be easier to cheet that way. I was annoyd. I told him we had more pryde than that!

## Spelling: Proofreading Practice

Directions: Circle the six spelling and pronoun mistakes in each paragraph. Write the words correctly on the lines below.

Jenna always braged about being ready to meet any chalenge or reach any gole. When it was time for our class to elekt it's new officers, Jenna said we should voat for her to be president.

$\qquad$

Simon wanted to be ours president, too. He tried to coaks everyone to vote for his. He even lowned kids money to get their votes! Well, Jenna may have too much pryde in herself, but l like her in spit of that. At least she didn't try to buy our votes!

Its true that Jenna tried other ways to get us to vote for hers. She scrubed the chalkboards even though it was my dayly job for that week. One day, I saw her rinseing out the paintbrushes when it was Peter's turn to do it. Then, she made sure we knew about her good deeds so we would praize her.

We held the election, but I was shalked when the teacher releesed the results. Simon won! I wondered if he cheeted somehow. I feel like our class was robed! Now, Simon is the one who's braging about how great he is. I wish he knew the titel of president doesn't mean anything if no one wants to be around you!

## Adding Suffixes

A suffix is a syllable at the end of a word that changes its meaning.
The suffixes ant and ent mean "a person or thing that does something."

## Examples:

A person who occupies a place is an occupant.
A person who obeys is obedient.


A root word is the common stem that gives related words their basic meanings.
When a word ends in silent e, keep the e before adding a suffix beginning with a consonant.
Drop the e before adding a suffix beginning with a vowel.

## Examples:

announce + ment = announcement
announce + ing = announcing
Announce is the root word in this example.
Directions: Combine each root word and suffix to make a new word. The first one has been done for you.

| Root word | Suffix | New word |
| :--- | :--- | :--- |
| observe | ant | observant |
| contest | ant | - |
| please | ant | - |
| preside | ent | - |
| differ | ent |  |

Directions: Use the meanings in parentheses to complete the sentences with one of the above new words. The first one has been done for you.

1. To be a good scientist, you must be very observant. (pay careful attention)
2. Her perfume had a strong but very $\qquad$ smell. (nice)
3. Because the bridge was out, we had to find a $\qquad$ route home. (not the same)
4. The game show $\qquad$ jumped up and down when she won the grand prize. (person who competes)
5. Next week, we will elect a new student council $\qquad$ . (highest officer)

## Adding Suffixes

The suffix less means "without"; ative means "having the nature of" or "relating to"; ive means "having" or "tending to be."

## Examples:

Faultless means "without fault or blame."
Formative means "something that can be formed or molded."
Corrective means "something that fixes a problem."
Directions: Combine each root word and suffix to form a new word. The first one has been done for you.

| Root word | Suffix | New word |
| :--- | :--- | :--- |
| sleep | less | sleepless |
| imagine | ative |  |
| talk | ative | - |
| impress | ive |  |
| attract | ive |  |

Directions: Use the meanings in parentheses to complete the sentences with one of the above new words.

1. The night before his birthday, Michael spent a $\qquad$ night. (wide awake)
2. Our history teacher is a rather $\qquad$ man who likes to tell jokes and stories. (fond of speaking)
3. That book has such an $\qquad$ plot! (showing creativity)
4. Monica thought the dress in the store window was very $\qquad$ . (pleasing)
5. The high school basketball team was $\qquad$ in its Friday night game, beating its rivals by 30 points. (making an impact on the mind or emotions)


## Adding Prefixes

A prefix is a syllable at the beginning of a word that changes its meaning. The prefixes il, im, in, and ir all mean "not."

## Examples:

Illogical means "not logical or practical."
Impossible means "not possible."
Invisible means "not visible."
Irrelevant means "not relevant or practical."


Directions: Divide each word into its prefix and root word. The first one has been done for you.

| illogical <br> impatient <br> immature <br> il |  |  | Refix <br> Root Word <br> logical |
| :--- | :--- | :--- | :--- |
| incomplete |  |  |  |
| insincere |  |  |  |
| irresponsible |  |  |  |
| irregular |  |  |  |

Directions: Use the meanings in parentheses to complete the sentences with one of the above words.

1. I had to turn in my assignment $\qquad$ because I was sick last night. (not finished)
2. It was $\qquad$ for Jimmy to give me his keys because he can't get into his house without them. (not practical)
3. Yoko and Joel were $\qquad$ to leave their bikes out in the rain. (not doing the right thing)
4. I sometimes get $\qquad$ waiting for my ride to school. (restless)
5. The boys sounded $\qquad$ when they said they were sorry. (not honest)
6. These towels didn't cost much because they are $\qquad$ . (not straight or even)

## Adding Prefixes

The prefix pre means "before." The prefix re means "again."

## Examples:

Preview means "to see in advance." Redo means "to do again."

Directions: Write sentences using these words with prefixes.


1. prefix $\qquad$
$\qquad$
2. redirect $\qquad$
$\qquad$
3. regain $\qquad$
$\qquad$
4. predetermine $\qquad$
$\qquad$
5. reorganize $\qquad$
$\qquad$
6. prepackage $\qquad$
$\qquad$
7. redistribute $\qquad$
$\qquad$
8. precook $\qquad$

## Synonyms

A synonym is a word with the same or similar meaning as another word.
Examples: bucket - pail happy — cheerful dirty — messy
Directions: Match the words on the left with their synonyms on the right. The first one has been done for you.



Directions: Rewrite the sentences below using synonyms for the bold words.

1. Because the road was rough, we had a hard time riding our bikes on it.
2. After the accident, the driver appeared to be hurt,so someone ran to call an ambulance.
3. Yesterday, everyone stayed after school to pick up litter, and now the school yard is nice and clean.

## Synonyms

Directions: Circle a word or a phrase in each sentence that is a synonym for a word in the box. Write the synonym on the line.


| challenged <br> perish | shocked <br> chill | thaw <br> shivering | chart <br> thrive | frighten <br> shield |
| :--- | :--- | :--- | :--- | :--- |

Example: The writing was in an old code.

## ancient

1. A fish out of water will quickly die.
2. The ice carving is beginning to melt. $\qquad$
3. I was amazed when I saw how he looked. $\qquad$
4. The puppy was trembling with excitement.
5. Ferns need moisture to grow well.
$\qquad$
6. Are you trying to scare me? $\qquad$
7. Let the salad get cold in the refrigerator. $\qquad$
8. She tried to protect him from the truth. $\qquad$
9. He made a list of different kinds of birds. $\qquad$
10. They dared us to enter the contest. $\qquad$
Directions: Write your own sentences using five words from the box. If you're not sure what a word means, look it up in a dictionary.

## Finding Synonyms

Directions: Circle a word, or group of words, in each sentence that is a synonym for a word in the box. Write the synonym on the line.

| statue <br> furniture | imagination <br> stranger | jealous <br> project | future <br> justice | arrangements <br> capture |
| :--- | :--- | :--- | :--- | :--- |

Example: She will(end)me her book.

1. He tried to catch the butterfly.
2. No one knows what will happen in the time to come.
3. They are loading the chairs, tables, and beds into the moving van.
4. We almost finished our team assignment.
5. They made plans to have a class party.
6. Penny made a model of a horse.
7. The accused man asked the judge for fairness.
loan
$\qquad$

Directions: Write your own sentences for these words: stranger, imagination, jealous. Then, choose one other word from the box, and use it in a sentence. Make each sentence at least 10 words long. The sentences should show that you know what the word means.

1. $\qquad$
$\qquad$
2. $\qquad$
$\qquad$
3. $\qquad$
$\qquad$
4. $\qquad$
$\qquad$

## Synonyms

Synonyms are words that mean the same or nearly the same.

## Examples:

small and little
big and large
bright and shiny unhappy and sad



Directions: Write a synonym for each word. Then, use it in a sentence. Use a dictionary if you are unsure of the meaning of a word.

1. cup $\qquad$
$\qquad$
2. book $\qquad$
$\qquad$
3. looking glass $\qquad$
4. hop $\qquad$
$\qquad$
5. discover $\qquad$
$\qquad$
6. plan $\qquad$
$\qquad$
7. lamp $\qquad$
$\qquad$
8. friend $\qquad$
$\qquad$
9. discuss $\qquad$
$\qquad$
10. rotate $\qquad$

## Antonyms

An antonym is a word with the opposite meaning of another word.
Examples: hot - cold
up - down
start - stop


Directions: Match the words on the left with their antonyms on the right. The first one has been done for you.


Directions: In the sentences below, replace each bold word with a synonym or an antonym so that the sentence makes sense. Write the word on the line. Then, write either synonym or antonym to show its relationship to the given word. The first one has been done for you.

1. If the weather stays warm, all the plants will perish.
live - antonym
2. Last night, Mom made my favorite meal, and it was delicious. $\qquad$
3. The test was difficult, and everyone in the class passed it.
4. The music from the concert was so loud we could hear it in the parking lot!
5. The bunks at camp were comfortable, and I didn't sleep very well.

## Finding Antonyms

Directions: Write a word that is an antonym for each bold word in the sentences below.


1. Jared made his way quickly through the crowd. $\qquad$
2. My friends and I arrived late to the party. $\qquad$
3. My sister loves to watch airplanes take off. $\qquad$
4. The teacher seems especially cheerful this morning. $\qquad$
5. When are you going to begin your project? $\qquad$

Directions: Write antonyms for the following words on the lines. Then, write a short paragraph using all the words you wrote.

| dirty | whisper |
| :--- | :--- |
| old | carefully |
| down | night |
| sit $\quad$ | happy |

## Antonyms

Antonyms are words that mean the opposite.

## Examples:

tall and short
high and low top and bottom


Directions: Write an antonym for each word. Then, use it in a sentence. Use a dictionary if you are unsure of the meaning of a word.

1. tired $\qquad$
2. bright $\qquad$
3. sparkling $\qquad$
4. tame $\qquad$
5. fresh $\qquad$
$\qquad$
6. elegant $\qquad$
7. real $\qquad$
8. odd $\qquad$
$\qquad$
9. unruly $\qquad$
10. valor $\qquad$
$\qquad$

## Homophones

Homophones are words that sound alike but have different spellings and meanings. The words no and know are homophones. They sound alike, but their spellings and meanings are very different.

Directions: Use words from the box to complete the exercises below.


| hour <br> wrap | wring <br> knight | knot <br> piece | whole <br> write | knew |
| :---: | :---: | :---: | :---: | :---: |

1. Write each word beside its homophone.

2. Write three words that have a silent $\mathbf{k}$. $\qquad$
3. Write one word that has a silent $\mathbf{h}$. $\qquad$
Directions: Circle the misused homophones in each sentence. Then, rewrite the sentences, using the correct homophones.
4. By the time knight fell, I new she was knot coming.
5. I would never have any piece until I new the hole story.
6. He spent an our righting down what had happened.
7. I could see write through the whole in the night's armor.

## Homophones

Homophones are words that are pronounced the same but are spelled differently and have different meanings.
Example: to, two, too



Directions: Use these homophones in sentences of your own.

1. forth $\qquad$
$\qquad$
2. fourth $\qquad$
$\qquad$
3. shown $\qquad$
$\qquad$
4. shone $\qquad$
$\qquad$
5. they're $\qquad$
$\qquad$
6. their $\qquad$
$\qquad$
7. there $\qquad$
$\qquad$
8. not $\qquad$
$\qquad$
9. knot $\qquad$
$\qquad$

## Homophones

Directions: Complete the story below by writing the correct homophones for the words in parentheses.

Last Saturday, I went to (meat)
$\qquad$ my friend, Andrea, at the mall.

When I got there, I noticed she looked a little (pail) $\qquad$ .
"What's wrong?" I asked her.
She (side) $\qquad$ . "I'm
(knot) $\qquad$ feeling so (grate) $\qquad$ ," she said. "I don'† (no) $\qquad$ what's
wrong with me."
"Maybe you (knead) $\qquad$ to drink some water or some juice," I said.
"Let's go to the drugstore. It's this (weigh) $\qquad$ ."

As we were walking, we passed a (flour) $\qquad$ shop, and I bought (sum) $\qquad$ roses for my mother. Then, we found the drugstore, and Andrea bought some juice. An (our) $\qquad$ later, she felt much better.

That (knight) $\qquad$ , I gave the roses to my mother. "You shouldn' $\dagger$ (waist) $\qquad$ your money on (presence) $\qquad$ for me!"
she said, but she was smiling. I (new) $\qquad$ she was pleased.
"That's okay, Mom, I wanted to buy them for you," I said. "But now I'm broke. How about a (lone) $\qquad$ ?"

## Homographs

Homographs are words that have the same spelling but different meanings and pronunciations.

```
pres`ent
pre sent }\mp@subsup{}{}{\prime
rec`ord n. written or official evidence
re cord` v. to keep an account of
wind n. air in motion
wind v. to tighten the spring by turning a key
wound n. an injury in which the skin is broken
wound v. past tense of wind
```



Directions: Write the definition for the bold word in each sentence.

1. I would like to present our new student council president, Olivia Hall.
2. The store made a record of all my payments.
3. Wind the music box to hear the song.
4. His wound was healing quickly.
5. The wind knocked over my bicycle.
6. I bought her a birthday present with my allowance.

## Similes

A simile uses the words like or as to compare two things.

## Examples:

The snow glittered like diamonds.
He was as slow as a turtle.


Directions: Circle the two objects being compared in each sentence.

1. The kittens were like gymnasts performing tricks.
2. My old computer is as slow as molasses.
3. When the lights went out in the basement, it was as dark as night.
4. The sun was like a fire, heating up the earth.
5. The young girl was as graceful as a ballerina.
6. The puppy cried like a baby all night.
7. He flies that airplane like a daredevil.
8. The girl was as pretty as a picture.
9. The snow on the mountaintops was like whipped cream.
10. The tiger's eyes were like emeralds.

Directions: Complete the simile in each sentence.
11. My cat is as $\qquad$ as $\qquad$ .
12. He was as $\qquad$ as $\qquad$ .
13. Melissa's eyes shone like $\qquad$ .
14. The paints were like $\qquad$ .
15. The opera singer's voice was as $\qquad$ as $\qquad$ .
16. My friend is as $\qquad$ as $\qquad$ .

## Metaphors

A metaphor is a direct comparison between two things. The words like or as are not used in a metaphor.


Example: The sun is a yellow ball in the sky.

Directions: Underline the metaphor in each sentence. Write the two objects being compared on the line.

1. As it bounded toward me, the dog was a quivering furball of excitement.
$\qquad$
2. The snow we skied on was mashed potatoes.

$\qquad$
3. Diego is a mountain goat when it comes to rock climbing.
4. The light is a beacon shining into the dark basement.
5. The famished child was a wolf, eating for the first time in days.
6. The man's arm was a tireless lever as he fought to win the wrestling contest.
7. The flowers were colorful polkadots against the green of the yard.

## Idioms

An idiom is a phrase that says one thing but actually means something quite different.
Example: A horse of a different color means something quite unusual.
Directions: Write the letter of the correct meaning for each bold phrase. The first one has been done for you.
a. refusal to see or listen
b. misbehaving, acting in a wild way
c. made a thoughtless remark
d. lost an opportunity
e. got angry
f. pay for
g. unknowing
h. feeling very sad
i. get married
j. excited and happy
$f \quad$ 1. My parents will foot the bill for my birthday party.
2. Antonio and Lisa will finally tie the knot in June.
3. Sam was down in the dumps after he wrecked his bicycle.
4. Sarah put her foot in her mouth when she was talking to our teacher.
5. I really missed the boat when I turned down the chance to work after school.
6. I got the brush-off from Malia when I tried to ask her where she was last night.
7. Mickey is in the dark about our plans to throw a surprise birthday party for him.
8. The children were bouncing off the walls when the baby-sitter tried to put them to bed.
9. The students were flying high on the last day of school.
10. My sister lost her cool when she discovered I had spilled chocolate milk on her new sweater.

## Idioms

An idiom is a figure of speech that has a meaning different from the literal one.

## Example:

Dad is in the doghouse because he was late for dinner.
Meaning: Dad is in trouble because he was late for dinner.

Directions: Write the meanings of the idioms in bold.


1. He was a bundle of nerves waiting for his test scores.
2. It was raining cats and dogs.
3. My friend and I decided to bury the hatchet after our argument.
4. He gave me the cold shoulder when I spoke to him.
5. My mom blew up when she saw my poor report card.
6. I was on pins and needles before my skating performance.
7. When the student didn't answer, the teacher asked, "Did the cat get your tongue?"
8. The city rolled out the red carpet for the returning Olympic champion.
9. They hired a clown for the young boy's birthday party to help break the ice.

## Review

Directions: Circle the word or phrase that best defines the bold words.

1. The woman has a very pleasant voice. loud nice strange

2. He had a very imaginative excuse for not turning in his homework. creative difficult to believe acceptable
3. I didn't get credit for my answer on the test because it was incomplete. not correct too short not finished
4. Will you wind the music box for the baby? air in motion injury in which the skin is broken tighten the spring by turning a key
5. To enroll in the school, you must bring your birth certificate or some other legal record for identification.
to keep an account a flat disk that plays music written or official evidence
6. We use the crystal pitcher when we have company.
printed likeness of a person or object
baseball team member container for pouring
7. This block is as light as a feather!
very heavy not heavy at all bright
8. The whole family was there when Bill and Lynn tied the knot last weekend.
were caught in a trap bought a house got married
9. I will have to foot the bill for the damage you caused.
kick pay for seek payment
10. Madison lost her cool when the party was called off.
got angry had a fever went home
11. The kite soared like an eagle.
flapped and fluttered glided along high in the air
crashed to the ground

## Review

Directions: Write a synonym for each word.

1. amusing $\qquad$
2. prison $\qquad$
$\qquad$
Directions: Write an antonym for each word.
3. insult $\qquad$
4. famine $\qquad$
Directions: Write a homophone pair.
5. $\qquad$
Directions: Write a sentence containing a simile.
6. $\qquad$
Directions: Write a sentence containing a metaphor.
7. $\qquad$
Directions: Write the letter of the correct meaning for the idiom in each sentence.
a. made a thoughtless remark
b. lost an opportunity
c. pay for
d. feeling very sad
e. excited and happy
$\qquad$ 12. My uncle promised to foot the bill for a new computer if I got terrific grades this year.
__ 13. Takeo was down in the dumps when his team
 lost the game.
8. The opposing team was flying high after the win.
9. Jonah put his foot in his mouth when he told his mother what he really thought of her new hairdo.
$\qquad$ 16. Sean really missed the boat when he turned down the chance to travel to England.

## Using a Dictionary

Directions: Read about dictionaries. Then, answer the questions.
Dictionaries are books that give definitions of words. Dictionaries list words in alphabetical order. Guide words at the top of each page show the first and last words listed on the page. All other words on the page are listed in alphabetical order between the guide words. This helps you locate the word you want quickly and easily.

In addition to definitions, dictionaries also show the following: how to pronounce, or say, each word; the individual syllables found in each word; the part of speech for each word; and the plural form or verb
 forms if the base word changes.

Some dictionaries provide considerably more information. For example, The Tormont Webster's Illustrated Encyclopedic Dictionary includes many color illustrations of terms, a pronunciation key on every other page and two pages of introductory information on how to use the dictionary effectively.

Other highlights of the Tormont Webster are historical labels that tell the history of words no longer in common use; geographic labels that tell in what part of the world uncommon words are used; stylistic labels that tell whether a word is formal, informal, humorous or a slang term; and field labels that tell what field of knowledge-such as medicine-the word is used in.

1. Where are guide words found? $\qquad$
2. What is the purpose of guide words? $\qquad$
3. Which label tells if a word is a slang term? $\qquad$
4. Which label tells the history of a word?
5. Which type of information is not provided for each word in the dictionary?

## Using a Dictionary

Directions: Use the dictionary entry below to answer the questions.
ad-he-sive (ad-he'-siv) adj. 1. Tending to adhere; sticky.
2. Gummed so as to adhere. n. 3. An adhesive substance such as paste or glue. ad-he-sive-ly adv. ad-he-sive-ness $n$.

1. Based on the first definition of adhesive, what do you think adhere means?

2. Which definition of adhesive is used in this sentence? The tape was so adhesive that we couldn't peel it loose. $\qquad$
3. Which part of speech is adhesive used as in this sentence? We put a strong adhesive on the package to keep it sealed. $\qquad$
4. How many syllables does adhesive have? $\qquad$
5. Is adhesive used as a noun or an adjective in this sentence?

The adhesive we chose to use was not very gummy. $\qquad$
6. Adhesive and variations of the word can be used as what parts of speech? $\qquad$

Directions: Write sentences using these words.
7. adhesiveness $\qquad$
$\qquad$
8. adhesively $\qquad$
9. adhere $\qquad$

## Using a Dictionary

Guide words are the words that appear at the top of dictionary pages. They show the first and last words on each page.

Directions: Read the guide words on each dictionary page below. Then, look around for objects whose names come between the guide words. Write the names of the objects, and then number them in alphabetical order.


| magic |  | myself |
| :--- | :--- | ---: |
| $\square$ | - |  |
|  |  |  |


| cabin |  | cycle |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |


| pea |  | puzzle |
| :---: | :---: | :---: |
| $\square$ | $\square$ |  |
|  |  |  |


| dairy |  | dwarf |
| :--- | :--- | :--- | :--- |
| $\square$ | - |  |
|  |  |  |


| scar |  | sword |
| :--- | :--- | :--- |
| $\square$ | $\square$ |  |
|  |  |  |



## Using a Dictionary: Guide Words

Directions: Use the guide words and page numbers shown on the top of the dictionary pages below. Write the page number where each word would be found.


1. boast
$\qquad$ 11.bogie
2. bodkin $\qquad$ 12. bode
3. body language $\qquad$ 13. bodily
4. board $\qquad$ 14. blurt
$\qquad$
5. 

$\qquad$
6. bobbin
15. blusher
16. bodiless
7. boar fish $\qquad$
8. boatload $\qquad$ 18. blurb
17. boardroom
8.boatoad
$\qquad$ 19. boggle
9. boilermaker
10. body clock $\qquad$ 20. boccie
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Using a Dictionary: Multiple Meanings

If a word has more than one meaning, you will find that information in a dictionary.
Directions: Use the dictionary entry below to answer the questions about the word record.
re-cord v . (ri kord') 1. a) to put in writing, print, etc. for future use; draw up an account of (to record the day's events); b) to make a permanent or official note of (to record a vote) 2. a) to indicate automatically or permanently, as on a graph or chart (a seismograph records earthquakes); b) to show, as on a dial (a thermometer records temperatures) 3. to remain as evidence of (metal tools record a superior civilization)
4. a) to register (sound or visual images) in some permanent form, such as digitally or on a phonograph disc, magnetic tape, etc. for reproduction on a playback device; b) to register the performance of (a musician, actor, composition, etc.) in this way. (for n. \& adj. rek' erd) 5. an account of facts or events
 preserved, esp. in writing 6. information or knowledge about a person's achievements or performances 7. standing with respect to contests won, lost, and tied 8. the best performance of its kind to date 9. something, as in a disk, on which sound or images have been recorded $\mathbf{1 0}$. adj. surpassing all others.

1. How many and which parts of speech are listed for all definitions of record? $\qquad$
$\qquad$
2. Including all the subheadings, how many definitions are listed? $\qquad$
3. Which definition uses the example of a thermometer recording a temperature? $\qquad$
4. Which definition describes a record you might play to listen to music? $\qquad$
5. Is record used as a noun or a verb in this sentence?

She held the all-time record for most wins.
6. Is record used as a noun or a verb in this sentence?

I will record our conversation.

## Multiple Meanings

Directions: Circle the correct definition of the bold word in each sentence. The first one has been done for you.

1. Try to flag down a car to get us some help!
2. We listened to the band play the National Anthem.
3. He was the sole survivor of the plane crash.
4. I am going to pound the nail with this hammer.
5. He lived on what little game he could find in the woods.
6. We are going to book the midnight flight from Miami.
7. The pitcher looked toward first base before throwing the ball.
8. My grandfather and I played a game of checkers last night.
9. They raise the flag over City Hall every morning.

group of musicians a binding or tie
bottom of the foot one and only
to hit hard a unit of weight
animals for hunting
form of entertainment
to reserve in advance
a written work
baseball team member
container for pouring
animals for hunting
form of entertainment
to signal to stop
cloth used as symbol

## Using a Dictionary: Choosing the Correct Word

Directions: Use a dictionary to look up the words in parentheses. Then, write the correct word in the blanks.
$\qquad$ 1. Our class visited an art (galley/gallery) last week to learn about paintings and sculptures.
2. He didn't (scrutinize/scruple) his essay very carefully before handing it in.
3. She squeezed the clay in her hands until it became (plentiful/pliable).
4. The quarterback's (laudable/laughable)
 performance helped his team win the game.
5. The science that deals with the universe beyond Earth's atmosphere is known as (astronomy/astrology).
6. My mother was (grateful/graphic) that I helped her with the dishes.
7. The police did not have any (tantamount/tangible) evidence that the man was guilty.
8. It was very (unfortunate/unfamiliar) that she broke her arm right before the big game.
9. The gardener was using a (trough/trowel) to dig up the flowers.
$\qquad$ 10. That company manufactures men's and women's (appendage/apparel).
$\qquad$ 11. After vegetable scraps (decompose/decongest), you can put them on your garden as fertilizer.
12. Most bats are (nocturnal/noble) and sleep during the day.
13. We bought some (venerable/venetian) blinds for our windows instead of curtains.
14. The noisy class (exasperated/exaggerated) the teacher.
15. The prisoner was released on (parody/parole).

## Learning New Words

Directions: Write a word from the box to complete each sentence. Use a dictionary to look up words you are unsure of.

| bouquet <br> inherit <br> commotion | unconscious <br> hovering <br> criticize | inspire <br> assault | disability <br> enclosure |
| :--- | :--- | :--- | :--- |

1. He was knocked $\qquad$ by the blow to his head.
2. Megan never let her $\qquad$ stand in the way of accomplishing what she wanted.
3. The teacher burst into the noisy room and demanded to know what all the
$\qquad$ was about.
4. He offered her a $\qquad$ of flowers as a truce after their argument.
5. The zoo was in the process of building a new $\qquad$ for the elephants.
6. The mother was $\qquad$ over her sick child.
7. The movie was meant to $\qquad$ people to do good deeds.
8. My friend will eventually $\qquad$ a fortune from his grandmother.
9. Not many people enjoy having someone $\qquad$ their work.
10. The female leopard led the $\qquad$ on the herd of zebras.


## Learning New Words

Directions: Use a dictionary. Define the following words. Then, use each word in a sentence.

1. mechanical $\qquad$

2. cashmere $\qquad$
$\qquad$
3. deplorable $\qquad$
4. illusion $\qquad$
$\qquad$
5. rivalry $\qquad$
$\qquad$
6. traction $\qquad$
$\qquad$
7. whittle $\qquad$
$\qquad$
8. pageant $\qquad$
$\qquad$
9. nectarine $\qquad$
$\qquad$
10. javelin

## Using a Thesaurus

A thesaurus is a type of reference book that lists words in alphabetical order followed by their synonyms and antonyms. Synonyms are words that mean the same. Antonyms are words that mean the opposite.

A thesaurus is an excellent tool for finding just the right word. It is also a valuable resource for finding a variety of synonyms and/or antonyms to make your writing livelier.

Each main entry in a thesaurus consists of a word followed by the word's part of speech, its definition, an example, a list of related words, and other information. You can also find several thesauruses online.

Here is a typical entry in a thesaurus, with an explanation of terms below:

## SLOW

ADJ SYN deliberate, dilatory, laggard, leisurely, unhasty, unhurried REL lateness, limited, measured, slowish, steady, unhurrying, slowfooted, plodding, pokey, straggling, snail-like IDIOM as slow as molasses in January; as slow as a turtle CON blitz, quick, rapid, swift ANT fast

ADJ means "adjective"
CON means "contrasted words"
SYN means "synonym"
ANT means "antonym"
REL means "related words"
idiom means "a common phrase that is not literal"


Directions: Use the thesaurus entry to answer the questions.

1. What is the antonym listed for slow? $\qquad$
2. How many contrasting words are listed for slow? $\qquad$
3. How many synonyms are listed for slow? $\qquad$
4. What is slow compared to in the two idioms listed? $\qquad$
5. What is the last related word listed for slow? $\qquad$

## Using a Thesaurus to Find Synonyms

A thesaurus can help you find synonyms.

## Example:

FIND: VERB SYN locate, discover, detect, uncover, see, etc.
Directions: Use a thesaurus. Replace each word in bold with a synonym.


1. My father does not like our artificial Christmas tree.
2. The fabulous home sat on a large hill overlooking a wooded ravine.
3. My dog is allowed to be loose if someone is home.
4. A peaceful rally was held to bring attention to the needs of the homeless.
$\qquad$
5. The artist completed his sketch of the girl.
6. The timid boy could not bring himself to speak to the man at the counter.
7. My family is cutting down the timber at the back of our property
8. Her necklace was very attractive.
9. The girl looked hopelessly at her clothes and moaned that she had nothing to wear.
10. The team's feat of winning 20 games in a row was amazing.

## Using a Thesaurus

Directions: Use a thesaurus to list as many synonyms as possible for the following words.

1. calm $\qquad$
2. hunt $\qquad$
3. quilt $\qquad$
4. tender $\qquad$
5. vacate $\qquad$
Directions: Use a thesaurus to list as many related words as possible for the following words.
6. value $\qquad$
7. difference $\qquad$
8. enable $\qquad$
Directions: Use a thesaurus to list one idiom for each of the following words.
9. beauty $\qquad$
10. cake


## Using a Thesaurus to Find Antonyms

Antonyms are words that mean the opposite. Antonyms can be found in some thesauruses. They are identified by the abbreviation ANT.

## Examples:

FOUND:
VERB ANT misplaced, gone, lost, missing, mislaid, etc.

## RIDDLE:

NOUN ANT key, solution, answer, etc.
ANCIENT:


ADJECTIVE ANT new, recent, current, etc.
Directions: Use a thesaurus to replace each word in bold with an antonym.
$\qquad$ 1. Today's weather will undoubtedly be very humid.
$\qquad$ 2. Can you give my sister a napkin?
$\qquad$ 3. The man insulted me by laughing at my artwork.
$\qquad$ 4. I thought the rules for the classroom were too lax.
$\qquad$ 5. The broken leg was quite painful.
6. We made great progress last night on the parade float.
$\qquad$ 7. The girl received a reward for returning the lost wallet.
$\qquad$ 8. The teacher asked us to separate the types of art brushes.
9. The home was decorated in a simple manner.
$\qquad$ 10. They became very tense during the earthquake.
11. Mr. Kurtzman gave us a math test today.
12. My father loves hiking in the hills.
13. Stephen ran over my new red bike.

## Comprehension: Word Origins

Did you ever wonder why we call our midday meal "lunch"? Or where the name "Abraham" came from? Or why one of our lovely eastern states is called "Vermont"?

These and other words have a history. The study of where words came from and how they began is called etymology (ett-a-mol-o-gee).

The word lunch comes from the Spanish word longja which means "a slice of ham." Long ago, Spanish people ate a slice of ham for their midday meal. Eventually, what they ate became the word for the meal itself. Still later, it came to be pronounced "lunch" in English.

Abraham also has an interesting history. Originally, it came from the Hebrew word avarahem. Abraham means "father of many."

City and state names are often based on the names of Native American tribes or describe the geography of the area. Vermont is actually made from two French words. Vert is French for "green." Mont is French for "mountain."

Directions: Answer these questions about word origins.

1. What is the study of the history and origin of words? $\qquad$
2. From which language did the word lunch come? $\qquad$
3. What is the French word for "green"? $\qquad$
4. Vermont comes from two words of what language?
$\square$ Spanish $\square$ English $\square$ French
5. Which is not correct about the origin of names of cities and states?


$\square$They describe geography.

$\square$They name Native American tribes.

$\square$They are mostly French in origin.


## Comprehension and Context

Comprehension is understanding what is seen, heard, or read.
Context is the rest of the words in a sentence or the sentences before or after a word. Context can help with comprehension.

Context clues help you figure out the meaning of a word by relating it to other words in the sentence.

Directions: Use the context clues in the sentences to find the meanings of the bold words.

1. Ana was a wizard at games. She mastered them in no time and seldom lost.

$\square$ evil magician
$\square$ gifted person
$\square$ average player
2. The holiday was so special that she was sure she'd never forget it. The memory would be imprinted forever on her mind.
$\square$ weighed $\square$ fixed
3. "John will believe anything anyone tells him," his teacher said. "He's a very impressionable young man."easily influenced $\square$ unhappy $\square$ unintelligent
4. "Do you really think it's prudent to spend all your money on clothes?" his mother asked crossly.

$\square$ funny
5. "Your plan has merit," Elizabeth's father said. "Let me give it some thought."
$\square$ value
$\square$ awards $\square$ kindness
6. Isaiah was very gregarious and loved being around people.
$\square$ outgoing
$\square$ unfriendly

## Classifying

Classifying means putting items into categories based on similar characteristics.
Example: Tag, hide-and-seek, and tic-tac-toe could be classified as games.
Directions: Cross out the word in each group that does not belong. Then, add a word of your own that does belong. The first one has been done for you.

| 1. wren sparrow | robin <br> eagle | fe (her bluebird |
| :---: | :---: | :---: |
| 2. sofa | stool | chair |
| carpet | bench |  |
| 3. lettuce | salad | corn |
| broccoli | spinach |  |
| 4. pencil | chalk | crayon |
| pen | drawing |  |
| 5. perch | shark | penguin |
| bass | tuna |  |
| 6. rapid | quick | unhurried |
| swift | speedy |  |
| 7. lemon | daisy | melon |
| lime | grapefruit |  |



Directions: Write a category name above each group of words. Then, write a word of your own that belongs in each group.
blizzard
hurricane
thunder
$\qquad$
ankle
shin
thigh

## hockey

ice skating
bobsledding

## Classifying

Directions: Write three objects that could belong in each category.

1. whales
2. songs
3. sports stars $\qquad$
$\qquad$
$\qquad$
4. fruit $\qquad$
$\qquad$
$\qquad$
5. schools $\qquad$
$\qquad$
$\qquad$
6. teachers $\qquad$
$\qquad$
$\qquad$
7. tools $\qquad$
8. friends $\qquad$
$\qquad$
$\qquad$
9. books $\qquad$
$\qquad$
$\qquad$
10. mammals $\qquad$
$\qquad$
$\qquad$
11. fish
12. snacks
13. cars
14. hobbies $\qquad$
$\qquad$
$\qquad$
15. vegetables $\qquad$
$\qquad$
$\qquad$
16. insects $\qquad$


## Classifying: Regional Forecast

## Directions: Read the forecast. Then, write words in the correct categories.

The very warm, early spring weather will continue to spread along the East Coast today. With some sunshine, afternoon temperatures will climb to 90 degrees in many places. Columbia, South Carolina, and neighboring areas could reach 100 degrees. Showers are expected from Washington, D.C., to New York City. Severe thunderstorms are likely in Virginia and North Carolina. Central South Carolina will be under a tornado watch during the afternoon.

## Cities

$\qquad$
$\qquad$
$\qquad$

## States

$\qquad$
$\qquad$
$\qquad$

Weather Conditions
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Analogies

An analogy is a way of comparing objects to show how they are related.

Example: Nose is to smell as tongue is to taste.


Directions: Write the correct word in the blank to fill in the missing part of each analogy. The first one has been done for you.

| 1. Scissors are to paper as saw is to wood. | fold | scissors | thin |
| :---: | :---: | :---: | :---: |
| 2. Man is to boy as woman is to | mother | girl | lady |
| 3. __ is to cellar as sky is to ground. | down | attic | up |
| 4. Rag is to dust as ___ is to sweep. | floor | straw | broom |
| 5. Freezer is to cold as stove is to | cook | not | recipe |
| 6. Car is to ___ as book is to bookshelf. | ride | gas | garage |
| 7. Window is to ___ as car is to metal. | glass | clear | house |
| 8. Eyes are to seeing as feet are to | legs | walking | shoes |
| 9. Gas is to car as ___ is to lamp. | electricity | plug | cord |
| 10. Refrigerator is to food as ___ is to clothes. | fold | material | closet |
| 11. Floor is to down as ceiling is to ___ . | high | over | up |
| 12. Pillow is to soft as rock is to | dirt | hard | hurt |
| 13. Carpenter is to house as poet is to ___ . | verse | novel | writing |
| 14. Lamp is to light as clock is to | time | hands | numbers |
| 15. __ is to hand as sole is to foot. | wrist | finger | palm |

## Analogies

Directions: Write your own words on the blanks to complete each analogy. The first one has been done for you.

1. Fuse is to firecracker as wick is to candle .
2. Wheel is to steering as $\qquad$ is to stopping.
3. Scissors are to $\qquad$ as needles are to sew.
4. Water is to skiing as rink is to $\qquad$ .
5. Steam shovel is to dig as tractor is to $\qquad$ .

6. Stick is to hockey as $\qquad$ is to baseball.
7. Watch is to television as $\qquad$ is to radio.
8. $\qquad$ are to goose as children are to child.
9. Multiply is to multiplication as $\qquad$ is to subtraction.
10. Milk is to cow as egg is to $\qquad$ .
11. Yellow is to banana as $\qquad$ is to tomato.
12. $\qquad$ is to slow as day is to night.
13. Pine is to tree as $\qquad$ is to flower.
14. Zipper is to jacket as $\qquad$ is to shirt.
15. Museum is to painting as library is to $\qquad$ .
16. Petal is to flower as branch is to $\qquad$ .
17. Cow is to barn as car is to $\qquad$ .
18. Dresser is to bedroom as $\qquad$ is to kitchen.
19. Teacher is to $\qquad$ as doctor is to patient.
20. Ice is to cold as fire is to $\qquad$ .

## Synonym and Antonym Analogies

Analogies are a way of comparing items to show how they are related. Analogies can show different types of relationships. Two relationships analogies might show are synonyms or antonyms.

## Examples:

Antonyms: hot is to cold as happy is to sad
Synonyms: happy is to glad as run is to jog
You can write an analogy this way:
slow : fast :: up : down
You read it this way:
Slow is to fast as up is to down.
Directions: Write $\mathbf{S}$ for synonym or $\mathbf{A}$ for antonym in the blanks in front of each analogy. Then, complete the analogies by choosing a word from the box.

$\qquad$ 1. dog : canine :: cat : $\qquad$
___ 2. coat : parka :: curtain: $\qquad$
$\qquad$ 3. asleep : awake :: work : $\qquad$
$\qquad$ 4. ground : sky :: below : $\qquad$
5. freeze : thaw :: stroll : $\qquad$
6. dangerous : treacherous :: picture : $\qquad$
$\qquad$
7. ancient : old :: bedspread : $\qquad$
8. win : lose :: succeed : $\qquad$
9. manmade : artificial :: unique : $\qquad$
$\qquad$
10. wealthy : poor :: death : $\qquad$

## Part/Whole and Cause/Effect Analogies

Other types of analogies are part to whole and cause and effect.

## Example:

Part to whole: fingers : hand :: toes : foot
Cause and effect: rain : flood :: matches : fire
Directions: Write $\mathbf{P}$ for part to whole or $\mathbf{C}$ for cause and effect in the blanks in front of each analogy. Then, complete the analogies by choosing a word from the box.


| tree | bike | punishment <br> beach <br> pencil | laugh |
| :--- | :--- | :--- | :--- |

$\qquad$

1. hair : head :: fingernails :
$\qquad$ 2. germ : virus :: misbehavior : $\qquad$
2. fall : injury :: overeating : $\qquad$
3. keyboard : computer :: wheels : $\qquad$
4. tongue : shoe :: sand: $\qquad$
5. practice : win :: joke : $\qquad$
6. read : learn :: snow : $\qquad$
7. pouch : kangaroo :: beak : $\qquad$
8. leaf : plant :: bark :
9. ink : pen :: lead :


## Facts and Opinions

A fact is information that can be proved.
Example: Hawaii is a state.
An opinion is a belief. It tells what someone thinks. It cannot be proved.

Example: Hawaii is the prettiest state.
Directions: Write $\mathbf{F}$ (fact) or $\mathbf{O}$ (opinion) on the line by each sentence. The first one has been done for you.


1. Hawaii is the only island state.
2. The best fishing is in Michigan.
3. It is easy to find a job in Wyoming.
4. Trenton is the capital of New Jersey.
5. Kentucky is nicknamed the Bluegrass State.
6. The friendliest people in the United States live in Georgia.
7. The cleanest beaches are in California.
8. Summers are most beautiful in Arizona.
9. Only one percent of North Dakota is forest or woodland.
10. New Mexico produces almost half of the nation's uranium.
11. The first shots of the Civil War were fired in South Carolina on April 12, 1861.
12. The varied geographical features of Washington include mountains, deserts, a rainforest, and a volcano.
13. In 1959, Alaska and Hawaii became the 49th and 50th states admitted to the Union.
14. Wyandotte Cave, one of the largest caves in the United States, is in Indiana.

Directions: Write one fact and one opinion about your own state.
Fact: $\qquad$ Opinion:

## Facts and Opinions

A fact is a statement based on truth. It can be proven. Opinions are the beliefs of an individual that may or may not be true.

## Examples:

Fact: Alaska is a state.
Opinion: Alaska is the most magnificent state.
Directions: Write $\mathbf{F}$ if the statement is a fact. Write $\mathbf{O}$ if the statement is an opinion.

1. $\qquad$ The Grand Canyon is the most scenic site in the United States.
2. $\qquad$ Dinosaurs roamed Earth millions of years ago.
3. $\qquad$ Scientists have discovered how to clone sheep.
4. $\qquad$ All people should attend this fair.
5. $\qquad$ Purebreds are the best dogs to own because they are intelligent.
6. $\qquad$ Nobody likes being bald.
7. $\qquad$ Students should be required to get straight A's to participate in extracurricular activities.
8. $\qquad$ Reading is an important skill that is vital in many careers.
9. $\qquad$ Snakes do not make good pets.
10. $\qquad$ Many books have been written about animals.
11. $\qquad$ Thomas Edison invented the lightbulb.
12. $\qquad$ Most people like to read science fiction.
13. $\qquad$ Insects have three body parts.


## Facts and Opinions

Directions: Read the articles about cats. List the facts and opinions.

Cats make the best pets. Domestic or house cats were originally produced by crossbreeding several varieties of wild cats. They were used in ancient Egypt to catch rats and mice, which were overrunning bins of stored grain. Today, they are still the most useful domestic animal.

## Facts:


$\qquad$

## Opinions:

$\qquad$
$\qquad$

It is bad luck for a black cat to cross your path. This is one of the many legends about cats. In ancient Egypt, for example, cats were considered sacred and often were buried with their masters. During the Middle Ages, cats often were killed for taking part in what people thought were evil deeds. Certainly, cats sometimes do bring misfortune.

## Facts:

$\qquad$
$\qquad$
$\qquad$

## Opinions:

## Facts and Opinions

Directions: Write nine statements that are facts and nine statements that are opinions.
FACTS
1.
2.
3.
4.
5. $\qquad$
6. $\qquad$
7.
8. $\qquad$
9.

## OPINIONS

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. $\qquad$

## Cause and Effect

A cause is an event or reason that has an effect on something else.

## Example:

The heavy rains produced flooding in Chicago.
Heavy rains were the cause of the flooding in Chicago.
An effect is an event that results from a cause.

## Example:

Flooding in Chicago was due to the heavy rains.
Flooding was the effect caused by the heavy rains.


Directions: Read the paragraphs. Complete the charts by writing the missing cause (reason) or effect (result).

Club-footed toads are small toads that live in the rainforests of Central and South America. Because they give off a poisonous substance on their skins, other animals canno $\dagger$ eat them.

## Cause:

They give off a poisonous substance.
Civets (siv its) are weasel-like animals. The best known of the civets is the mongoose, which eats rats and snakes. For this reason, it is welcome around homes in its native India.

Cause:
$\qquad$

It is welcome around homes in its native India.
Bluebirds can be found in most areas of the United States. Like other members of the thrush family of birds, young bluebirds have speckled breasts. This makes them difficult to see and helps them hide from their enemies. The Pilgrims called them "blue robins" because they are much like the English robin. They are the same size and have the same red breast and friendly song as the English robin.

## Cause:

Young bluebirds have speckled breasts.

## Effect:

The Pilgrims called them "blue robins."

## Review

Directions: Write the answers.

1. Define classifying.
2. Add words to these classifications:
meat:
hamburger steak sirloin tip

## breakfast drinks:

orange juice
cranberry juice
grapefruit juice

## music groups:

the Backstreet Boys the Beatles


## colors:

blue
fuschia melon
3. What is an analogy? $\qquad$
4. Give an example of an analogy.
5. Write two sentences that are facts.
6. Write two sentences that are opinions.
7. Write an example of cause and effect. Underline the cause. Circle the effect.

## Review

Directions: Write three statements about yourself that are facts.

1. $\qquad$
2. $\qquad$
3. $\qquad$
Directions: Write three statements about yourself that are opinions.
4. $\qquad$
5. $\qquad$
6. $\qquad$
Directions: Write a category name for each set of words.
7. Arizona, Wisconsin,Texas $\qquad$
8. mouse, rat, squirrel $\qquad$
9. saddle, reins, halter

Directions: Finish the analogies with words from the box.
Not all words will be used.
10. look : see :: kind :
11. bald : hairy :: difficult :
$\qquad$
12. insomnia : nightmares :: crumbs :
$\qquad$
13. engine : car :: heart :

| friend |
| :--- |
| nice |
| ants |
| pretzels |
| human |
| hard |
| easy |
| alone |



## Main Idea

The main idea is the most important idea, or main point, in a sentence, paragraph, or story.

Directions: Read the paragraphs below. For each paragraph, underline the sentence that tells the main idea.

Sometimes, people think they have to choose between exercise and fun. For many people, it is more fun to watch television than to run 5 miles. Yet, if you don't exercise, your body gets soft and out of shape. You move more slowly. You may even think more slowly. But why do something that isn't fun? Well, there are many ways to exercise and have fun.

One family solved the exercise problem by using their TV. They hooked up the television to an electric generator. The generator was operated by an exercise bike. Anyone who wanted to watch TV had to ride the bike. The room with their television in it must have been quite a sight!

Think of the times when you are just hanging out with your friends. You go outside and jump rope, play ball, run races, and so on. Soon, you are all laughing and having a good time. Many group activities can provide you with exercise and be fun, too.

Maybe there aren't enough kids around after school for group games. Perhaps you are by yourself. Then what? You can get plenty of exercise just by walking, biking, or even dancing. In the morning, walk the long way to the bus. Ride your bike to and from school. Practice the newest dance by yourself. Before you know it, you will be the fittest dancer of all your friends!

Directions: Write other ideas you have for combining fun and exercise below.

$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Reading Skills: Skimming

Skimming an article means to read quickly, looking for headings and key words to give an overall idea of the content of an article or to find a particular fact. When skimming for answers, read the questions first. Then, look for specific words that will help locate the answers.

Directions: Skim the paragraph to answer this question.

1. What "marvel" is the paragraph about? $\qquad$

In America, there is so much magnificent scenery. Perhaps the most stunning sight of all is the Grand Canyon. This canyon is in northern Arizona. It is the deepest, widest canyon on Earth. The Grand Canyon is 217 miles long, 4 to 18 miles wide and, in some places, more than a mile deep. The rocks at the bottom of the steep walls are at least 500 million years old. Most of the rocks are sandstone, limestone, and shale. By studying these rocks, scientists know that this part of the world was once under the sea.


Directions: Skim the paragraph again to find the answers to these questions.

1. How deep are the lowest points in the Grand Canyon?
2. How old are the rocks at the bottom of the Grand Canyon?
3. What kinds of rocks would you find in the Grand Canyon?
4. What do these rocks tell us?

## Reading Skills: Maps



Directions: Use this map to answer the questions.

1. What state borders Louisiana to the north?
2. What is the state capital of Louisiana?
3. What cities are located near Lake Pontchartrain?
4. In which direction would you be traveling if you drove from Monroe to Alexandria?
5. About how far is it from Alexandria to Lake Charles?
6. Besides Arkansas, name one other state that borders Louisiana.

## Reading Skills: Maps



Directions: Use this map of Columbus, Ohio, to answer the questions.

1. Does Highway 104 run east and west or north and south?
2. What is the name of the freeway numbered 315 ?
3. Which is farther south, Bexley or Whitehall?
4. What two freeways join near the Port Columbus International Airport?
5. Which two suburbs are farther apart, Dublin and Upper Arlington, or Dublin and Worthington?
6. In which direction would you be traveling if you drove from Grove City to Worthington?

## Sequencing: Maps

Directions: Read the information about planning a map.

Maps have certain features that help you to read them. A compass rose points out directions. Color is often used so you can easily see where one area (such as a county, state, or country) stops and the next starts.

To be accurate, a map must be drawn to scale. The scale of a map
 shows how much area is represented by a given measurement. The scale can be small: 1 inch = 1 mile; or large: 1 inch $=1,000$ miles.

Symbols are another map tool. An airplane may represent an airport. Sometimes, a symbol does not look like what it represents. Cities are often represented by dots. A map legend tells what each symbol means.

One of the best ways to learn about maps is to make one of your own. You may be surprised at how much you learn about your neighborhood, too. You will need a large piece of paper, a ruler, a pencil, and colored pencils.

You will need to choose the area you want to map out. It is important to decide on the scale for your map. It could be small: 1 inch $=3$ feet, if you are mapping out your own backyard. Be sure to include symbols, like a picnic table to represent a park or a flag to represent a school. Don't forget to include the symbols and other important information in your legend.

Directions: Number in order the steps to making your own map.
$\qquad$ Figure out the scale that will work best for your map.
$\qquad$ Obtain a large piece of paper, ruler, pencil, and colored pencils.
$\qquad$ Make a legend explaining the symbols you used.
Draw your map!
Draw symbols to represent features of the area you are mapping.
Decide on the area you want to map out.

## Creating a Map

Directions: In the space below, draw a map of your street or town. Be sure to include a compass rose, scale, symbols, and a map legend.

## Following Directions

Directions: Read and follow the directions.

1. Draw a vertical line from the top mid-point of the square to the bottom mid-point of the square.
2. Draw a diagonal line from top left to bottom right of the square.
3. In each of the two triangles, draw a heart.
4. Draw a picture of a cat's face below the square.
5. Draw a horizontal line from the left mid-point to the right mid-point of the square.
6. Draw two intersecting lines in each of the two smaller squares so they are equally divided into four quadrants.
7. Draw a triangle-shaped roof on the square.
8. Draw a circle next to each heart.
9. Write your name in the roof section of your drawing.


## Following Directions: Continents



Directions: Read the facts about the seven continents, and follow the directions.

1. Asia is the largest continent. It has the largest land mass and the largest population. Draw a star on Asia.
2. Africa is the second largest continent. Write a $\mathbf{2}$ on Africa.
3. Australia is the smallest continent in area: 3 million square miles, compared to 17 million square miles for Asia. Write $\mathbf{3 , 0 0 0 , 0 0 0}$ on Australia.
4. Australia is not a very crowded continent, but it does not rank lowest in population. That honor goes to Antarctica, which has no permanent population at all! This icecovered continent is too cold for life. Write zero on Antarctica.
5. Australia and Antarctica are the only continents entirely separated by water. Draw circles around Australia and Antarctica.
6. North America and South America are joined together by a narrow strip of land. It is called Central America. Write an $\mathbf{N}$ on North America, an $\mathbf{S}$ on South America, and a C on Central America.
7. Asia and Europe are joined together over such a great distance that they are sometimes called one continent. The name given to it is Eurasia. Draw lines under the names of the two continents in Eurasia.

## Reading a Recipe

Directions: Read the recipe. Then, answer the questions.

## Black Bean and Cheese Tacos

1 15-ounce can of black beans
$\frac{3}{4}$ C. mild salsa
$\frac{1}{4}$ tsp. salt
$\frac{1}{4}$ tsp. garlic powder
1 head of lettuce

Drain the beans, and then combine them with $\frac{1}{4}$ cup of the salsa in a medium bowl. Microwave for 1 to 2 minutes. Stir in the salt and garlic powder. Next, wash the lettuce, and tear or cut it into small pieces. Place two taco shells on each plate. Divide the bean mixture among the taco shells. Top with lettuce, cheddar, and remaining salsa.

1. What do these abbreviations stand for?
tsp. $\qquad$
c. $\qquad$
2. Number the steps in the correct order.

8 taco shells 1 cup shredded cheddar cheese

$\qquad$ Wash the lettuce.
$\qquad$ Place two taco shells on each plate.
$\qquad$ Microwave the beans and salsa.
$\qquad$ Drain the beans.
$\qquad$ Combine the beans with a quarter cup of the salsa.
3. Why is it important to follow the correct sequence when cooking?

## Reading Skills: Labels

Labels provide information about products.
Directions: Read the label on the medicine bottle. Answer the questions.

Remember: Children should never take medicines without their parents' knowledge and consent.

1. What is the dosage, or amount to be taken, for a three-year-old child?
2. How often can you take this medicine if it is needed?
3. How many times a day can you take this medicine?
4. What should you do before taking the medicine if you have a rash in addition to
 your cough?
5. Will this medicine help you if you are sneezing?
6. What is the dosage for an adult?

## Reading Skills: News Stories

Directions: Write the answers.

1. What is the name of your daily local newspaper?

2. List the sections included in your local newspaper. If you do not get a newspaper at home, you can visit your local newspaper's Web site or look for a copy at a library.
3. Do you read news stories (in newspapers, magazines, or online) on a regular basis? If so, where? If not, how do you learn about current events? $\qquad$
$\qquad$
4. Ask a parent where he or she reads the news. Is it a newspaper, an online news site, or a variety of sources? $\qquad$
5. Find the editorial section of your newspaper. An editorial is the opinion of one person. Write the main idea of one editorial. $\qquad$
$\qquad$
$\qquad$
$\qquad$
6. If you could work as a news reporter, what sorts of stories would you like to report on?
$\qquad$
$\qquad$
7. Go online, and search for a news source intended for kids. (Some options are www.timeforkids.com, www.dogonews.com, and www.magazines.scholastic.com.) Write down two headlines that interest you.

## Reading Skills: A Newspaper Index

An index is a listing in a book, magazine, or newspaper that tells where to find items or information.

Newspapers provide many kinds of information. You can read about
 national events, local news, the weather, and sports. You will also find opinions, feature stories, advice columns, comics, entertainment, recipes, advertisements, and more. A guide that tells you where to find different types of information in a newspaper is called a newspaper index. An index of the newspaper usually appears on the front page. In an online version of a newspaper, the index appears on the paper's home page. There are usually drop-down menus that allow you to chose more specific topics within a section.

Directions: Use the newspaper index to answer the questions.
Business ..... 8
Local News. ..... 5-7
Classified Ads. ..... 18-19
National News ..... 1-4
Comics ..... 20
Television ..... 17
Editorials 9 Sports ..... 11-13
Entertainment 14-16 Weather ..... 10

1. Where would you look for results of last night's basketball games?Section:
$\qquad$ Page(s) $\qquad$
2. Where would you find your favorite cartoon strip? Section: $\qquad$ Page(s) $\qquad$
3. Where would you find opinions of upcoming elections? Section: $\qquad$ Page(s) $\qquad$
4. Where would you look to locate a used bicycle to buy? Section: $\qquad$ Page(s) $\qquad$
5. Where would you find out if you need to wear your raincoat tomorrow? Section: $\qquad$ Page(s) $\qquad$
6. Which would be first, a story about the president's trip to Europe or a review of the newest movie?

## Reading Skills: Classified Ads

A classified ad is an advertisement found in a newspaper, online, or in a magazine offering a product or service for sale or rent.

Example: For Sale: Used 26" 30-speed bike. \$100. Call 555-5555.

Directions: Read these advertisements. Answer the questions.
2.
1.

## Yard Work Breaking Your Back?

Give Mike and Jane a crack! Mowing, raking, trash hauled. References provided. Call 555-9581 or email yrdwrk@linknet.com.

## Pet Sitter:

Going on vacation?
Away for the weekend?
I am 14 years old and have experience caring for dogs and cats.
Your home or mine.
Excellent references.
Call Riley Trent.
Phone: 999-8250

3.

## Singing Lessons for All Ages!

Be popular at parties! Fulfill your dreams! 20 years coaching experience. Madame Rinaud . . . Coach to the Stars. Call 555-5331 or email songbird@ global.com.

1. What is promised in the third ad?
2. Is it fact or opinion?
3. What fact is offered in the third ad? $\qquad$
4. Give an example of a slogan, or easy-to-remember phrase, that appears in one of the ads. $\qquad$
5. Which ad gives the most facts? $\qquad$
6. Which ad is based mostly on opinion? $\qquad$

## Reading Skills: Classified Ads

Directions: Write a classified ad for these topics. Include information about the item, a phone number or email address, and an eye-catching title.

1. An ad to wash cars

2. An ad for free puppies
$\qquad$
$\qquad$
$\qquad$
3. An ad for something you would like to sell
$\qquad$
$\qquad$
$\qquad$
4. An ad to sell your house

$\qquad$
$\qquad$
$\qquad$

## Reading Skills: Schedules

A schedule lists events or programs by time, date, and place or channel. Example:

Packer Preseason Games

| August 14 | 7 P.M. | NY Jets at Green Bay |
| :--- | :--- | :--- |
| August 23 | 7 P.M. | Denver Broncos at Madison |
| August 28 | P.M. | Saints at New Orleans |
| September 2 | Noon | Miami Dolphins at Green Bay |

Directions: Use this television schedule to answer the questions.

| Evening |  |  |
| :---: | :---: | :---: |
| 6:00 | ANM L | Let's Talk! Guest: Animal expert Jim Porter |
|  | CAR | Cartoons |
|  | NTV N | News |
|  | WMU N | News |
| 7:00 | FRM F | Farm Report |
|  | COM | Movie. A Laugh a Minute (1955) James |
|  |  | Rayburn. Comedy about a boy who wants to join the circus. |
|  | GMS | Spin for Dollars! |
|  | CKG | Cooking with Cathy. Tonight: Chicken with mushrooms |
| 7:30 | COM | Double Trouble (comedy). The twins disrupt the high school dance. |
|  | WST | Wall Street Today: Stock Market Report |
| 8:00 | STS | NBA Basketball. Teams to be announced. |
|  | WMU N | News Special. "Saving Our Waterways: Pollution in the Mississippi." |
|  | THT | Movie. At Day's End (2009). Michael Collier, Julie Romer. Drama se $\dagger$ |

1. What two stations have the news at $6: 00$ ?
2. What time would you turn on the television to watch a funny movie? $\qquad$
What channel?
3. What could you watch if you are a sports fan? $\qquad$
What time and channel is it on?
4. Which show title sounds like it could be a game show?
5. What show might you want to watch if you are interested in the environment?

What time and channel is it on? $\qquad$

## Review

Directions: Write the answers.

1. What is the purpose of a classified ad? $\qquad$
2. Skim a paper or digital version of your local newspaper. List at least six

3. What sections are included in the index of your local newspaper?
$\qquad$
4. What four pieces of information should a television program schedule contain?
$\qquad$
$\qquad$
$\qquad$
5. What information is present on a medicine bottle?
$\qquad$
$\qquad$
6. Why is it important for medicine labels to include warnings?

## Using Prior Knowledge: Books

Directions: Before reading about books in the following section, answer these questions.

1. What books have you read recently?

2. Write a summary of one of the books you listed above.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Define the following types of books and, if possible, give an example of each. biography: $\qquad$
$\qquad$
fiction: $\qquad$
$\qquad$
mystery: $\qquad$
$\qquad$
nonfiction: $\qquad$
$\qquad$

## Context Clues: Remember Who You Are

Directions: Read each paragraph. Then, use context clues to figure out the meanings of the bold words.

During the 1940s, Esther Hautzig lived in the town of Vilna, which was then part of Poland. Shortly after the outbreak of World War II, she and her family were deported to Siberia by Russian communists who hated Jews. She told what happened to her and other Polish Jews in a book. The book is called Remember Who You Are: Stories About Being Jewish.

1. Choose the correct definition of deported.

$\square$ sent away $\quad \square$ asked to go $\quad \square$ invited to visit
2. Choose the correct definition of outbreak.

$\square$ to leave suddenly

Remember Who You Are: Stories About Being Jewish is a nonfiction book that tells true stories. An interesting fiction book is Wonder by R.J. Palacio. It tells the story of a boy named August Pullman who was born with a facial difference. He begins fifth grade at a new school, and all he wants is to fit in. However, his classmates have a hard time showing empathy and getting past what he looks like on the outside.
3. Choose the correct definition of fiction.

$\square$stories that are true $\square$ stories that are not true
4. Choose the correct definition of empathy.
$\square$ interesting $\square$ understanding

$\square$rejection

## Comprehension: Books and More Books!

Variety is said to be the spice of life. Where books are concerned, variety is the key to reading pleasure. There is a type of book that appeals to every reader.

Each year, hundreds of new books are published for children. A popular series for girls between the ages of 8 and 12 is Dear America. Each book focuses on a different time period or event in American history. The stories are told through the fictional diary entries of a girl living in that period.

If you like legends, an interesting book is Dream Wolf by Paul Goble. Dream Wolf is a retelling of an old Native American legend. Legends are stories passed down from one generation to another that may or may not be true. Some of them are scary! The Legend of Sleepy Hollow, for example, is about a headless horseman. Other legends are about a person's brave or amazing deeds. For example, there are many legends about Robin Hood, who stole from the rich and gave to the poor.

Many children like to read nonfiction books, which are about things that really exist or really happened. Those interested in information about Native Americans might like to read these books: North American Indian by David S. Murdoch, Native American History for Kids by Karen Bush Gibson, and If You Lived with the Indians of the Northwest Coast by Anne Kamma.

Directions: Answer these questions about different types of books.

1. What is the name of a book series that takes place in different periods of American history?
2. What legend is about a headless horseman?
3. Which of the following is not correct about legends?

$\square$
Legends are passed down through the generations.
$\square$ All legends are scary.

$\square$
Some legends are about people who did brave things.

## Comprehension: Shel Silverstein

Who is your favorite author? For many young people, the answer is Shel Silverstein. Shel's first book was published in the 1960s, and since then, his children's books have sold more than 20 million copies!

Shel Silverstein was born in Chicago, Illinois, in 1932. Although he was best known for writing children's poetry, Shel was creative in many ways. He was a talented singer, songwriter, composer, and illustrator. In fact, Shel illustrated all of his children's books himself. That is one reason the pictures seem to accompany the poetry so perfectly.

Shel's Where the Sidewalk Ends, first published in 1984, is one of the most beloved children's books of all time. What makes Shel's poetry so timeless and popular? His poems are often hilarious, with exaggerated situations, funny characters, and clever language. Shel's poems often rhyme and have a good rhythm, making them easy and interesting to read.

Shel Silverstein died in 1999 at his home in Key West, Florida. However, his quirky humor and incredible imagination will live on in his work, bringing joy to young readers for many generations to come.

Directions: Answer these questions about Shel Silverstein.

1. What is Shel Silverstein best known for? $\qquad$
2. Who illustrated Shel Silverstein's books? $\qquad$
3. In what year was Where the Sidewalk Ends published? $\qquad$
4. Which two words best describe Shel Silverstein's writing?
$\square$ hilarious $\square$ rhythmic $\square$ serious
5. Where was Shel Silverstein born?

$\square$
London, England

$\square$
Key West, Florida

$\square$
Chicago, Illinois

## Fact or Opinion?

Directions: Read the paragraphs below. Then, in the corresponding numbered blanks, write whether each numbered sentence is a fact or an opinion.

Have you ever seen the show Reading Rainbow? (1) It's a show about books, and its host is LeVar Burton. (2) Reading Rainbow was broadcast for more than 20 years on PBS stations across the country.

Some books that have been featured on the show are I Can Be an Oceanographer by Paul Sipiera, Soccer Sam by Jean Marzolla, Redbird by Patrick Fort, and Miss Nelson Has a Field Day by Harry Allard. (3) Miss Nelson Has a Field Day sounds like the most interesting book of all!
(4) On Reading Rainbow, children give informal book reports about books they have read. (5) All the children are adorable! In about 1 minute, each child describes his or her book. (6) While the child is talking, pictures of some of the pages from the book are shown. (7) Seeing the pictures will make you want to read the book. A few books are described on each show. (8) Other activities include trips with LeVar to places the books tell about. (9) Every child should make time to watch Reading Rainbow! (10) It's a fabulous show!

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$

## Context Clues: Kids' Books Are Big Business

Between 1978 and 1988, the number of children's books published in the United States doubled. The publishing industry, which prints, promotes, and sells books, does not usually move this fast. Why? Because if publishers print too many books that don'† sell, they lose money. They like to wait, if they can, to see what the demand is for certain types of books. Then, they accept manuscripts from writers who have written the types of books the public seems to want. More than 4,600 children's books were
 published in 1988, because publishers thought they could sell that many titles. Many copies of each title were printed and sold to bookstores and libraries. The publishers made good profits and, since then, the number of children's books published each year has continued to grow. Today, more than 30,000 children's books are published each year!

Some people are worried that old-fashioned books will soon be a thing of the past. More and more information is available for free on the Internet. In addition, many people choose to read their books in digital form, on a tablet or computer screen. There is something special about reading an actual book with paper pages. Humans may have entered the digital age, but I'm sure that old-fashioned books are here to stay!

Directions: Answer these questions about how interest in writing, reading, and selling children's books has grown.

1. Use context clues to choose the correct definition of industry. $\square$ booksellers $\quad \square$ writers $\quad \square$ entire business
2. If 4,600 books were sold in 1988 , how many books were sold in $1978 ?$
3. The number of children's books published in the United States doubled between 1978 and 1988.
4. More and more information is available for free on the Internet.

Fact
Opinion
5. Many people choose to read their books in digital form, on a tablet or computer screen.

Fact
Opinion
6. There is something special about reading an actual book with paper pages.

Fact
Opinion

## Review

Directions: Follow the instructions below.

1. Write a summary of the selection "Shel Silverstein" (page 91).
$\qquad$
$\qquad$
$\qquad$
2. What skills must a writer have in order to produce a book?
3. Define the following words from this section.
appeal: $\qquad$
legend: $\qquad$
deed: $\qquad$
generation: $\qquad$
profit: $\qquad$
distribute: $\qquad$
suspense: $\qquad$
manuscript: $\qquad$
4. Interview the members of your family. Ask each person his or her favorite book title and the reason he or she enjoyed it. Then, summarize your findings in a paragraph.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## READING COMPREHENSION



## Using Prior Knowledge: Music

Using prior knowledge means being able to use what one already knows to find an answer or get information.

Directions: Before reading about music in the following section, answer these questions.

1. In your opinion, why is music important to people?
$\qquad$
$\qquad$
$\qquad$
2. Name as many styles of music as you can.

$\qquad$
$\qquad$
$\qquad$
3. What is your favorite type of music? Why?
$\qquad$
$\qquad$
$\qquad$
4. If you could choose a musical instrument to play, what would it be? Why?
$\qquad$
$\qquad$
$\qquad$
5. Name a famous musician, and describe what you know about him or her.

## Main Idea: Where Did Songs Come From?



Historians say the earliest music was probably connected to religion. Long ago, people believed the world was controlled by a variety of gods. Singing was among the first things humans did to show respect to the gods.

Singing is still an important part of most religions. Buddhists (bood-ists), Christians, Muslims, and Jews all use chants and/or songs in their religious ceremonies. If you have ever sung a song—religious or otherwise-you know that singing is fun. The feeling of joy that comes from singing must have also made ancient people feel happy.

Another time people sang was when they worked. Egyptian slaves sang as they carried the heavy stones to build the pyramids. Soldiers sang as they marched into battle. Farmers sang one song as they planted and another when they harvested. Singing made the work less burdensome. People used the tunes to pace themselves. Sometimes, they followed instructions through songs. For example, "Yo-oh, heave ho!/Yo-oh, heave ho!" was sung when sailors pulled on a ship's ropes to lift the sails. Heave means "to lift," and that is what they did as they sang the song. The song helped sailors work together and pull at the same time. This made the task easier.

Directions: Answer these questions about music.

1. Circle the main idea:

Singing is fun, and that is why early people liked it so much.
Singing began as a way to show respect to the gods and is still an important part of most religious ceremonies.

Traditionally, singing has been important as a part of religious ceremonies and as inspiration for workers.
2. Besides religious ceremonies, what other activity fostered singing? $\qquad$
3. When did farmers sing two different songs? $\qquad$
4. How did singing "Yo-oh, heave ho!" help sailors work? $\qquad$

## Comprehension: Facts About Folk Music

Folk music literally means music "of the folks," and it belongs to everyone. The names of the musicians who composed most folk music have long been forgotten. Even so, folk music has remained popular because it tells about the lives of people. Usually, the tune is simple, and even though folk songs often have many verses, the words are easy to remember. Do you know the words to "She'll Be Comin' 'Round the Mountain"?

Although no one ever says who "she" is, the verses tell you that she will be "riding six white horses" and that "we'll go out to greet her." The song also describes what will be eaten when she comes (chicken and dumplings) and what those singing will be wearing (red pajamas).

"Clementine" is a song that came out of the California gold rush in the mid-1800s. It tells the story of a woman who was "lost and gone forever" when she was killed. ("In a cavern, in a canyon, excavating for a mine/Met a miner '49er and his daughter, Clementine.")

Another famous folk song is "Swing Low, Sweet Chariot." This song was sung by slaves in the United States and today is sung by people of all races. The words "Swing low, sweet chariot, coming for to carry me home . . ." describe the soul being united with God after death. Like other folk songs that sprang from slaves, "Swing Low, Sweet Chariot" is simple, moving, and powerful.

Directions: Answer these questions about folk music.

1. What is the purpose of folk music? $\qquad$
2. What food is sung about in "She'll Be Comin' 'Round the Mountain"? $\qquad$
3. Where did Clementine live?

$\square$ Mississippi
$\square$ California
4. Where in the United States do you think "Swing Low, Sweet Chariot" was first sung? $\square$ the North $\square$ the West
$\square$ the South

## Recalling Details: Woodwinds



There are four kinds of woodwind instruments in modern bands. They are flutes, oboes, clarinets, and bassoons. They are called "woodwind" instruments for two sensible reasons. In the beginning, they were all made of wood. Also, the musician's breath, or "wind," was required to play them.

Although they are all woodwinds, these instruments look different and are played differently. To play an oboe, the musician blows through a mouthpiece on the front of the instrument. The mouthpiece, called a reed, is made of two flat pieces of a kind of wood called cane. Clarinet players also blow into a reed mouthpiece. The clarinet has only one reed in its mouthpiece.

To play the flute, the musician blows across a hole near one end of the instrument. The way the breath is aimed helps to make the flute's different sounds. The bassoon is the largest woodwind instrument. Bassoon players blow through a mouthpiece that goes through a short metal pipe before it goes into the body of the bassoon. It makes a very different sound from the clarinet or the oboe.

Woodwind instruments also have keys-but not the kind of keys that open locks. These keys are more like levers that the musician pushes up and down. The levers cover holes. When the musician pushes down on a lever, it closes that hole. When he or she lifts his or her finger, it opens the hole. Different sounds are produced by controlling the amount of breath, or "wind," that goes through the holes.

Directions: Answer these questions about woodwind instruments.

1. What instruments are in the woodwind section?
2. Why are some instruments called woodwinds? $\qquad$
3. How is a flute different from the other woodwinds? $\qquad$
4. What happens when a musician pushes down on a woodwind key? $\qquad$
5. How would a woodwind musician open the holes on his/her instrument?

## Comprehension: Harp Happenings

If you have ever heard a harpist play, you know what a lovely sound a harp makes. Music experts say the harp is among the oldest of instruments. It probably was invented several thousand years ago in or near Egypt.

The first harps are believed to have been made by stretching a string tightly between an empty tortoise shell and a curved pole. The empty shell magnified the sound the string made when it was plucked. More strings were
 added later so that more sounds could be made. Over the centuries, the shape of the harp gradually was changed into that of the large, graceful instruments we recognize today.

Here is how a harpist plays a harp. First, he or she leans the harp against his or her right shoulder. Then, the harpist puts his or her hands on either side of the harp and plucks its strings with both hands.

A harp has seven pedals on the bottom back. The audience usually cannot see these pedals. Most people are surprised to learn about them. The pedals are connected to the strings. Stepping on a particular pedal causes certain strings to tighten. The tightening and loosening of the strings makes different sounds; so does the way the strings are plucked with the hands.

At first glance, harps look like simple instruments. Actually, they are rather complicated and difficult to keep in tune. A harpist often spends as long as half an hour before a performance tuning his or her harp's strings so it produces the correct sounds.

Directions: Answer these questions about harps.

1. When were harps invented? $\qquad$
2. Where were harps invented? $\qquad$
3. What is a person called who plays the harp?
4. The harpist leans the harp against his or her
$\square$ right shoulder. $\square$ left shoulder. $\square$ left knee.
5. How many pedals does a harp have?

$\square$ six
6. Harps are easy to play.

$\square$ no

## Comprehension: Brass Shows Class



If you like band music, you probably love the music made by brass instruments. Bright, loud, moving, and magnificentall these words describe the sounds made by brass.

Some of the earliest instruments were horns. Made from hollowed-out animal horns, these primitive instruments could not possibly have made the rich sounds of modern horns that are made of brass.

Most modern brass bands have three instruments-tubas, trombones, and trumpets. Combined, these instruments can produce stirring marches, as well as haunting melodies.
The most famous composer for brass instruments was John Philip Sousa. Born in Washington, D.C., in 1854, Sousa was a military band conductor and composer. He died in 1932, but his music is still very popular today. One of Sousa's most famous tunes for military bands is "Stars and Stripes Forever."
Besides composing band music, Sousa also invented a practical band instrument-the sousaphone. The sousaphone is a huge tuba that makes very low noises. Because of the way it curls around the body, a sousaphone is easier to carry than a tuba, especially when the musician must march. This is exactly why John Philip Sousa invented it!

Directions: Answer these questions about brass instruments.

1. Who invented the sousaphone? $\qquad$
2. What were the first horns made from? $\qquad$
3. Where was John Philip Sousa bor $n$ ? $\qquad$
4. When did John Philip Sousa die? $\qquad$
5. Why did Sousa invent the sousaphone? $\qquad$
$\qquad$
6.What types of instruments make up a modern brass band?

## Comprehension: Violins

If you know anything about violin music, chances are you have heard the word Stradivarius (Strad-uh-vary-us). Stradivarius is the name for the world's most magnificent violins. They are named after their creator, Antonio Stradivari.

Stradivari was born in northern Italy and lived from 1644 to 1737. Cremona, the town he lived in, was a place where violins were manufactured. Stradivari was very young when he learned to play the violin. He grew to love the instrument so much that he began to make them himself.


Violins were new instruments during Stradivari's time. People made them in different sizes and shapes and of different types of wood. Stradivari is said to have been very particular about the wood he selected for his violins. He took long walks alone in the forest to find just the right tree. He is also said to have used a secret and special type of varnish to put on the wood. Whatever the reasons, his violins are the best in the world.

Stradivari put such care and love into his violins that they are still used today. Many of them are in museums. But some wealthy musicians, who can afford the thousands and thousands of dollars they cost, own Stradivarius violins.

Stradivari passed his methods on to his sons. But the secrets of making Stradivarius violins seem to have died out with the family. Their rarity, as well as their mellow sound, make Stradivarius violins among the most prized instruments in the world.

Directions: Answer these questions about Stradivarius violins.

1. Where did Stradivari live? $\qquad$
2. Why did he begin making violins? $\qquad$
3. Why are Stradivarius violins special? $\qquad$
4. Where can Stradivarius violins be found today? $\qquad$
$\qquad$
5. How did Stradivari select the wood for his violins? $\qquad$
6. Who else knew Stradivari's secrets for making such superior violins?

## Review

Directions: Complete the following exercises.


1. Write a four-sentence summary of the selection "Where Did Songs Come From?" (page 97).
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Describe the main difference between a clarinet and an oboe.
$\qquad$
$\qquad$
3. How do the keys of woodwind instruments work?
$\qquad$
$\qquad$
4. Write a summary of the history of the harp.
$\qquad$
$\qquad$
$\qquad$
5. Define the following words from the selection "Facts About Folk Music" (page 98). verses: $\qquad$
excavating: $\qquad$ chariot: $\qquad$
composed: $\qquad$

## Using Prior Knowledge: Art

Directions: Before reading about art in the following section, answer these questions.

1. Write a short paragraph about a famous artist of your choice.
2. Many artists paint realistic scenes. Other artists paint imaginary scenes. Which do you prefer? Why?
$\qquad$
$\qquad$
3. Although we often think of art as painting and drawing, art also includes sculpture, fabric weavings, and metalwork. Are you talented at a particular type of art? If so, what type? If not, what would you like to learn?
$\qquad$
$\qquad$
$\qquad$
4. Why are art museums important to society?
$\qquad$
$\qquad$
$\qquad$
5. Why do you think some artwork is worth so much money? Would you pay several thousand dollars for a piece of artwork? Why or why not?

## Main Idea: Creating Art

No one knows exactly when the first human created the first painting. Crude drawings and paintings on the walls of caves show that humans have probably always expressed themselves through art. These early cave pictures show animals being hunted, people dancing, and other events of daily life. The simplicity of the paintings reflect the simple lifestyles of these primitive people.

The subjects of early paintings also help to make another important point. Art is not created out of nothing. The subjects an
 artist chooses to paint reflect the history, politics, and culture of the time and place in which he or she lives. An artist born and raised in New York City, for example, is not likely to paint scenes of the Rocky Mountains. An artist living in the Rockies is not likely to paint pictures of city life.

Of course, not all paintings are realistic. Many artists choose to paint pictures that show their own "inner vision" as opposed to what they see with their eyes. Many religious paintings of earlier centuries look realistic but contain figures of angels. These paintings combine the artist's inner vision of angels with other things, such as church buildings, that can be seen.

Directions: Answer these questions about creating art.

1. Circle the main idea:

Art was important to primitive people because it showed hunting and dancing scenes, and it is still important today.

Through the ages, artists have created paintings that reflect the culture, history, and politics of the times, as well as their own inner visions.
2. Why is an artist living in the Rocky Mountains less likely to paint city scenes?
3. In addition to what the artists see with their eyes, what do some paintings also show?

## Comprehension: Leonardo da Vinci



Many people believe that Leonardo da Vinci, an Italian artist and inventor who lived from 1452 to 1519 , was the most brilliant person ever born. He was certainly a man ahead of his time! Records show that da Vinci loved the world and was curious about everything in it.

To learn about the human body, he dissected corpses to find out what was inside. In the 15th and 16th centuries, dissecting the dead was against the laws of the Catholic Church. Leonardo was a brave man!
He was also an inventor. Leonardo invented a parachute and designed a type of helicopter-five centuries before airplanes were invented! Another of da Vinci's major talents was painting. You have probably seen a print, or copy, of one of his most famous paintings. It is called The Last Supper, and it shows Jesus eating his final meal with his disciples. It took da Vinci three years to paint The Last Supper. The man who hired da Vinci to do the painting was upset. He went to da Vinci to ask why it was taking so long. The problem, said da Vinci, was that in the painting, Jesus has just told the disciples that one of them would betray me. He wanted to get their expressions exactly right as each one cried out, "Lord, am I the one?"

Another famous painting by da Vinci is called the Mona Lisa. Have you seen a print of this painting? Maybe you have been lucky enough to see the original hanging in a Paris art museum called the Louvre (loov). If so, you know that Mona Lisa has a wisfful expression on her face. The painting is of a real woman, the wife of an Italian merchant. Art historians believe she looks wistful because one of her children had recently died.

Directions: Answer these questions about Leonardo da Vinci.

1. How old was da Vinci when he died? $\qquad$
2. Name two of da Vinci's inventions. $\qquad$
3. Name two famous paintings by da Vinci. $\qquad$
4. In which Paris museum does Mona Lisa hang? $\square$ Lourre $\square$ Loure $\square$ Louvre

## Context Clues: Leonardo da Vinci

Directions: Read the sentences below. Use context clues to figure out the meaning of the bold words.

1. Some people are perplexed when they look at The Last Supper, but others understand it immediately.
$\square$ unhappy

$\square$happy $\square$ puzzled
2. Because his model felt melancholy about the death of her child, da Vinci had music played to lift her spirits as he painted the Mona Lisa.
$\square$ sad $\square$ unfriendly $\square$ hostile
3. Because da Vinci's work is so famous, many people erroneously assume that he left behind many paintings. In fact, he left only 20.
$\square$
 correctly $\square$ wrongly
4. Leonardo da Vinci was not like most other people. He didn't care what others thought of him-he led an interesting and unconventional life.
$\square$ not ordinary

$\square$ordinary
5. The composition of The Last Supper is superb. All the parts of the painting seem to fit together beautifully.
$\square$ the picture frame $\square$ parts of the picture
6. Leonardo's genius set him apart from people with ordinary minds. He never married, he had few friends, and he spent much of his time alone.
$\square$ great mental abilities
improper way to do things
$\square$
$\square$ great physical abilities
7. Because he was a loner, da Vinci worried no one would come to his funeral when he died. In his will, he set aside 70 cents each to hire 60 mourners to accompany his body to his grave.friends

$\square$people who grieve

$\square$people who smile

## Comprehension: Michelangelo

Another famous painter of the late 14th and early 15th centuries was Michelangelo Buonarroti. Michelangelo, who lived from 1475 to 1564, was also an Italian. Like da Vinci, his genius was apparent at a young age. When he was 13, the ruler of his hometown of Florence, Lorenzo Medici (muh-deechee), befriended Michelangelo and asked him to live in the palace. There, Michelangelo studied sculpture and met many artists.

By the time he was 18, Michelangelo was a respected sculptor. He created one of his most famous religious sculptures, the Pieta (pee-ay-tah), when he
 was only 21. Then, the Medici family abruptly fell from power and Michelangelo had to leave Florence.

Still, his work was well known, and he was able to make a living. In 1503, Pope Julius II called Michelangelo to Rome. He wanted Michelangelo to paint the tomb where he would someday be buried. Michelangelo preferred sculpting to painting, but no one turned down the pope! Before Michelangelo finished his painting,however, the pope ordered Michelangelo to begin painting the ceiling of the Sistine Chapel inside the Vatican. (The Vatican is the palace and surrounding area where the pope lives in Rome.)

Michelangelo was very angry! He did not like to paint. He wanted to create sculptures. But no one turns down the pope. After much complaining, Michelangelo began work on what would be his most famous project.

Directions: Answer these questions about Michelangelo.

1. How old was Michelangelo when he died? $\qquad$
2. What was the first project Pope Julius II asked Michelangelo to paint?
3. What is the Vatican? $\qquad$
4. What was the second project the pope asked Michelangelo to do?
$\square$ paint his tomb's ceiling $\square$ paint the Sistine Chapel's ceiling

## Comprehension: Rembrandt

Most art critics agree that Rembrandt (Rem-brant) was one of the greatest painters of all time. This Dutch artist, who lived from 1606 to 1669, painted some of the world's finest portraits.

Rembrandt, whose full name was Rembrandt van Rijn, was born in Holland to a wealthy family. He was sent to a fine university, but he did not like his studies. He only wanted to paint. He sketched the faces of
 people around him. During his lifetime, Rembrandt painted 11 portraits of his father and nearly as many of his mother. From the beginning, the faces of old people fascinated him.

When he was 25, Rembrandt went to paint in Amsterdam, a large city in Holland where he lived for the rest of his life. There, he married a wealthy woman named Saskia, whom he loved deeply. She died from a disease called tuberculosis (ta-bur-ku-lo-sis) after only eight years, leaving behind a young son named Titus (Ty-tuss).

Rembrandt was heartbroken over his wife's death. He began to spend all his time painting. But instead of painting what his customers wanted, he painted exactly the way he wanted. Unsold pictures filled his house. They were wonderful paintings, but they were not the type of portraits people wanted. Rembrandt could not pay his debts. He and his son were thrown into the streets. The creditors took his home, his possessions, and his paintings. One of the finest painters on Earth was treated like a criminal.

Directions: Answer these questions about Rembrandt.

1. How old was Rembrandt when he died? $\qquad$
2. In what city did he spend most of his life? $\qquad$
3. How many children did Rembrandt have? $\qquad$
4. Rembrandt's wife was named
$\square$ Sasha. $\quad \square$ Saskia. $\square$ Saksia.
5. These filled his house after his wife's death.
$\square$ friends $\quad \square$ customers $\quad \square$ unsold paintings

## Review

Directions: Follow the instructions below.


1. Write a one-sentence main idea for the selection "Leonardo da Vinci" (page 106).
2. Write a summary of the selection "Leonardo da Vinci" (page 106).
$\qquad$
$\qquad$
$\qquad$
3. Complete the sequence of events from the selection "Michelangelo" (page 108).
1) Michelangelo was born in 1475 in Italy.
2) $\qquad$
3) $\qquad$
4) $\qquad$
5) $\qquad$
6) $\qquad$
7) $\qquad$
4. Define the following words from this section.
crude: $\qquad$
dissect: $\qquad$
disciples: $\qquad$
merchant: $\qquad$
wisfful: $\qquad$

## Using Prior Knowledge: Big Cats

Directions: Before reading about big cats in the following section, answer these questions.

1. Name at least four big wild cats.
2. Compare and contrast a house cat with a wild cat.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. What impact might the expansion of human population and housing have on big cats?
$\qquad$
$\qquad$
$\qquad$
4. Do you have a cat? What are the special qualities of this pet? Write about your cat's name and its personality traits. If you don't have a cat, write about a cat you would like to have.

## Comprehension: Jaguars

The jaguar is a large cat, standing up to 2 feet tall at the shoulder. Its body can reach 73 inches long, and the tail can be another 30 inches long. The jaguar is characterized by its yellowish-red coat covered with black spots. The spots themselves are made up of a central spot surrounded by a circle of spots.

Jaguars are not known to attack humans, but some ranchers claim that jaguars attack their cattle. This claim has given jaguars a bad reputation.

The jaguar can be found in southern North America, but is most populous in Central and South America. Jaguars
 are capable climbers and swimmers, and they eat a wide range of animals.

Female jaguars have between one and four cubs after a gestation of 93 to 105 days. Cubs stay with the mother for two years. Jaguars are known to have a life expectancy of at least 22 years.

Directions: Use context clues for these definitions.

1. populous: $\qquad$
2. reputation: $\qquad$
3. gestation: $\qquad$

Directions: Answer these questions about jaguars.
4. Describe the spots on a jaguar's coat.
5. Why would it be to a jaguar's advantage to have spots on its coat?

## Comprehension: Leopards

The leopard is a talented nocturnal hunter and can see very well in the dark. Because of its excellent climbing ability, the leopard is able to stalk and kill monkeys and baboons. Leopards are also known to consume mice, porcupines, and fruit.

Although the true leopard is characterized by a light beige coat with black spots, some leopards can be entirely black. These leopards are called black panthers. Many people refer to other cat species as leopards. Cheetahs are sometimes referred to as hunting leopards. The clouded leopard lives in southeastern Asia and has
 a grayish spotted coat. The snow leopard, which has a white coat, lives in Central Asia. A leopard's spots help to camouflage (cam-o-floj) it as it hunts.

True leopards can grow to over 6 feet long, not including their 3-foot-long tail. Leopards can be found in Africa and Asia.

Directions: Use context clues for these definitions.

1. consume: $\qquad$
2. ability: $\qquad$
3. nocturnal:

Directions: Answer these questions about leopards.
4. List three differences between the leopard and the jaguar.
5. What makes a leopard able to hunt monkeys and baboons?

## Comprehension: Lynxes

Lynxes are strange-looking cats with very long legs and large paws. Their bodies are a mere 51 inches in length, and they have short little tails. Most lynxes have a clump of hair that extends past the tip of their ears.

Lynxes are known to chase down their prey and also to leap on them from a perch above the ground. They eat small mammals and birds, as well as an occasional deer.

There are four types of lynxes. Bobcats can be found in all areas of the United States except the Midwest. The Spanish lynx is an endangered species. The Eurasian lynx, also known as the northern lynx, and the Canadian lynx are two other
 kinds of lynxes.

Directions: Use context clues for these definitions.

1. prey: $\qquad$
2. perch: $\qquad$
Directions: Answer these questions about lynxes.
3. What are the four types of lynxes? $\qquad$
$\qquad$
4. Use the following words in a sentence of your own.
mammal $\qquad$
endangered $\qquad$
5. Do you believe it is important to classify animals as "endangered" to protect a species that is low in population? Explain your answer.

## Comprehension: Pumas

The puma is a cat most recognized by the more popular names of "cougar" or "mountain lion." Just like other large cats, the puma is a carnivore. It feeds on deer, elk, and other mammals. It can be found in both North and South America.

Pumas have small heads with a single black spot above each eye. The coat color ranges from bluish-gray (North America) to reddish-brown (South America). The underside of the body, as well as the throat and muzzle, are white. The puma's body can be almost 6 feet long, not including the tail.

Female pumas give birth to two to four young. When first born, pumas have brown spots on their backs, and their tails are lined with dark brown rings.

As with the jaguar, pumas are blamed for killing cattle.
 Because of this, pumas are either nonexistent in some areas or are endangered.

Directions: Answer these questions about pumas.

1. What is a muzzle? $\qquad$
2. As the population increases in North America, predict what might happen to pumas.
3. What are two other popular names for the puma? $\qquad$
4. What other cat besides the puma is blamed for killing cattle?
5. Reviewing the sizes of cats discussed so far, write their names in order, from smallest to largest.
1) 
2) 
3) 
4) 

## READING COMPREHENSION

## Comprehension: Tigers



Tigers live on the continent of Asia. The tiger is the largest cat, often weighing over 500 pounds. Its body can grow to be 9 feet long and the tail can be up to 36 inches in length.

There are three types of tigers. The Siberian tiger is very rare and has a yellow coat with dark stripes. The Bengal tiger can be found in southeastern Asia and central India. Its coat is more orange, and its stripes are darker. There is a tiger that lives on the island of Sumatra as well. It is smaller and darker in color than the Bengal tiger.

Tigers lead solitary lives. They meet with other tigers only to mate and share food or water. Tigers feed primarily on deer and cattle but are also known to eat fish and frogs. If necessary, tigers will also eat dead animals.

Female tigers bear one to six cubs at a time. The cubs stay with their mother for almost two years before going out on their own.

Because tiger parts are in high demand for use in Chinese medicine and recipes, tigers have been hunted almost to extinction. All tigers are currently listed as endangered.

Directions: Use context clues for these definitions.

1. rare: $\qquad$
2. solitary: $\qquad$
3. extinction: $\qquad$
Directions: Answer these questions about tigers.
4. Why have tigers been hunted almost to extinction?
5. Name the three types of tigers.

## Comprehension: Lions

The lion, often referred to as the king of beasts, once commanded a large territory. Today, lions' territory is very limited. Lions are savanna-dwelling animals, which has made them easy targets for hunters. The increasing population of humans and their livestock has also contributed to the lion's decreased population.

Lions are heavy cats. Males weigh over 500 pounds and can grow to be over 8 feet in length, with a tail over 36 inches long. Males are characterized by a long, full mane that
 covers the neck and most of the head and shoulders. Females do not have a mane and are slightly smaller in size. Both males and females have beige coats, hooked claws, and powerful jaws. Their roars can be heard up to 5 miles away!

Lions tend to hunt in the evening and spend the day sleeping. They prefer hunting zebra or giraffe but will eat almost anything. A lion is capable of eating over 75 pounds of meat at a single kill and then going a week without eating again. Generally, female lions do the hunting, and the males come to share the kill.

Lions live in groups called prides. Each pride has between four and 37 lions. Females bear one to four cubs approximately every two years.

Directions: Answer these questions about lions.

1. What are the differences between male and female lions? $\qquad$
$\qquad$
2. Why would living on a savanna make the lion an "easy target"? $\qquad$
$\qquad$
Directions: Use context clues for these definitions.
3. pride: $\qquad$
4. territory: $\qquad$
5. savanna: $\qquad$
6. capable: $\qquad$

## Review

Directions: Follow the instructions below.

1. Choose any two big cats from this section, and compare them.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Why are each of these big cats endangered or decreasing in number?
$\qquad$
$\qquad$
$\qquad$
3. What can be done to get these big cats off the endangered list?
$\qquad$
$\qquad$
$\qquad$
4. Now that you have read about big cats, compare and contrast them with a house cat. What do you know now that you didn't know before reading this section?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Using Prior Knowledge: Farm Animals

Directions: Before reading about farm animals in the following section, answer these questions.

1. List at least nine types of farm animals by mother and baby names.

Example: sow—piglet

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. If you owned a large ranch, what type of livestock would you enjoy keeping? Why?
$\qquad$
$\qquad$
3. Some animals routinely give birth to twins, triplets, or larger litters. Which animals give birth to more than one baby at a time?
$\qquad$
$\qquad$
4. Would you enjoy living on a farm? Why or why not?
5. What is the importance of raising livestock today?

## Comprehension: All About Sheep

Did you ever wonder what really happened to the tails of Little Bo-Peep's sheep? Here's the real story.

When sheep are born, they are called lambs. Lambs are born with long tails. A few days after lambs are born, the shepherd cuts off their tails. Because they get dirty, the lambs' long tails can pick up lots of germs. Cutting them off helps to prevent disease. The procedure is called "docking." This is probably what happened to Bo-Peep's sheep! Another shepherd must have cut their tails off without telling her.

Little lambs are cute. A lamb grows inside its mother for 150 days before it is born. This is called the "gestation period." Some types of sheep, such as hill sheep, give birth to one lamb at a time. Other types of sheep, such as lowland sheep, give birth to two or three lambs at a time.

After it is born, it takes a lamb three or four days to recognize its mother. Once it does, it stays close to her until it is about 3 weeks old. After that, the lamb becomes friendly toward other lambs.

Young lambs then form play groups. They chase each other in circles. They butt into each other. Like children, they pretend to fight. When play gets too rough, the lambs run back to their mothers for protection.

Lambs follow their mothers as they graze on grass. Usually, sheep move in single file behind an older female sheep. Female sheep are called ewes. The ewes teach their lambs how to keep themselves clean. This is called "grooming." Sheep groom only their faces. Here is how they do it: They lick one of their front legs, and then they rub their faces against the spot they have licked.

Directions: Follow the instructions below.

1. Define the word docking.
2. Name a type of sheep that gives birth to one lamb at a time.
3. Name a type of sheep that gives birth to two or three lambs at a time.
4. Female sheep are called $\square$ grazers.

$\square$ewes. $\square$ dockers.
5. Lambs begin playing in groups when they are
$\square$ 2 weeks old.
 3 weeks old. $\square$ 4 weeks old.

## Comprehension: Pigs Are Particular

Have you ever wondered why pigs wallow in the mud? It's not because they are dirty animals. Pigs have no sweat glands. They can't sweat, so they roll in the mud to cool themselves. When people who are hot say, "I'm sweating like a pig!" that's not really true. Humans can sweat, but pigs cannot.

Actually, pigs are particular about their pens. They are very clean animals. They prefer to sleep in clean, dry places. They move their bowels and empty their bladders in another area. They do not want to get their homes dirty.

Another misconception about pigs is that they are smooth. Only cartoon pigs are pink, smooth, and shiny-looking. The skin of real pigs is covered with bristles-small, stiff hairs. Their bristles protect their tender skin.

Female pigs are called sows. Sows have babies twice a year and give birth to 10 to 14 piglets at a time. The babies have a gestation period of 16 weeks before they are born.

All the piglets together are called a litter. Newborn piglets are on their tiny feet within a few minutes after birth. Can you guess why? They are hungrily looking for their mother's teats so they can get milk. As they nurse, piglets snuggle in close to their mother's belly to keep warm.

Directions: Answer these questions about pigs.

1. Why do pigs wallow in mud? $\qquad$
2. How long is the gestation period for pigs?
3. What is one misconception about pigs? $\qquad$
4. Tell two reasons pigs are on their feet soon after they are born.
a.) $\qquad$ b.) $\qquad$
5. A female pig is called a
$\square$ bristle. $\square$ piglet. $\square$ SOW.
6. Together, the newborn piglets are called a
$\square$ group. $\square$ family. $\square$ litter.


## Context Clues: No Kidding About Goats

Goats are independent creatures. Unlike sheep, which move easily in herds, goats cannot be driven along by a goatherd. They must be moved one or two at a time. Moving a big herd of goats can take a long time, so goatherds must be patient people.

Both male and female goats can have horns, but some goats don't have them at all. Male goats have longer and bushier beards than females. Males goats also have thicker and shaggier coats than females. During breeding season, when goats mate, male goats have a very strong smell.

Goats are kept in paddocks with high fences. The fences are high because goats are good
 jumpers. They like to nibble on hedges and on the tips of young trees. They can cause a lot of damage this way! That is why many farmers keep their goats in a paddock.

Baby goats are called "kids," and two or three at a time are born to the mother goat. Farmers usually begin to bottle-feed kids when they are a few days old. They milk the mother goat and keep the milk. Goat's milk is much easier to digest than cow's milk, and many people think it tastes delicious.

Directions: Answer these questions about goats.

1. Use context clues to choose the correct definition of goatherd.

$\square$person who herds goats $\square$ goats in a herd $\square$ person who has heard of goats
2. Use context clues to choose the correct definition of paddock.

$\square$ fence $\square$ pen
3. Use context clues to choose the correct definition of nibble.
$\square$ take small bites $\square$ take small drinks $\square$ take little sniffs
4. Use context clues to choose the correct definition of delicious.
$\square$ delicate $\square$ tasty

## Comprehension: Cows Are Complicated

Would you believe cows have four stomachs? It sounds incredible, but it's true.

Here are the "hows" and "whys" of a cow's digestive system. First, it's important to know that cows do not have front teeth. They eat grass by wrapping their tongues around it and pulling it from the ground. They do have back teeth, but still they cannot properly chew the grass.


Cows swallow grass without chewing it. When it's swallowed, the grass goes into the cow's first stomach, called a rumen (roo-mun). There, it is broken up by the digestive juices and forms into a ball of grass. This ball is called cud. The cow is able to bring the cud back up into its mouth. Then, the cow chews the cud into a pulp with its back teeth and re-swallows it.

After it is swallowed the second time, the cud goes into the cow's second stomach. This second stomach is called the reticulum (re-tick-u-lum). The reticulum filters the food to sort out any small stones or other non-food matter. Then, it passes the food onto the cow's third stomach. The third stomach is called the omasum (oh-mass-um).

From there, any food that is still undigested is sent back to the first stomach so the cow can bring it back up into her mouth and chew it some more. The rest goes into the cow's fourth stomach. The fourth stomach is called the abomasum (ab-oh-ma-sum). Digesting food that can be turned into milk is a full-time job for cows!

Directions: Answer these questions about cows.

1. List in order the names of a cow's four stomachs.
a) $\qquad$ b) $\qquad$ c)
d) $\qquad$
2. What is the name of the ball of grass a cow chews on? $\qquad$
3. A cow has no

$\square$ back teeth. $\square$ fourth stomach.
4. Which stomach acts as a filter for digestion?
$\square$ reticulum
 rumen $\square$ abomasum

## Context Clues: Dairy Cows

Some cows are raised for their beef. Other cows, called dairy cows, are raised for their milk. A dairy cow cannot produce any milk until after its first calf is born. Cows are not mature enough to give birth until they are 2 years old. A cow's gestation period is 40 weeks long, and she usually gives birth to one calf. Then, she produces a lot of milk to feed it. When the calf is 2 days old, the dairy farmer takes the calf
 away from its mother. After that, the cow is milked twice a day.

The dairy cow's milk comes from the large, smooth udder beneath her body. The udder has four openings called teats. To milk the cow, the farmer grasps a teat and squeezes it with his thumb and forefinger. Then, he gently but firmly pulls his hand down the teat to squeeze the milk out. Milking machines that are hooked to the cow's teats duplicate this action and can milk many cows quickly.

A dairy cow's milk production is not at the same level all the time. When the cow is pregnant, milk production gradually decreases. For two months before her calf is born, a cow is said to be "dry" and is not milked. This happens because, like humans, much of the cow's food is actually being used to nourish the unborn calf.

Farmers give the cow extra food at this time to make sure the mother and unborn calf are well nourished. Again, like humans, well-nourished mothers are more likely to produce healthy babies.

Directions: Answer these questions about dairy cows.

1. Use context clues to choose the correct definition of grasp.

pull firmly $\square$ hold firmly $\square$ hold gently
2. Use context clues to choose the correct definition of duplicate.

$\square$ make
$\square$ copy
3. Use context clues to choose the correct definition of decrease.
$\square$ become more $\square$ become less $\square$ become quicker
4. Use context clues to choose the correct definition of nourish.
$\square$ to be happy $\square$ to be friendly

## Comprehension: Chickens

Have you ever heard the expression "pecking order"? In the pecking order of a school, the principal is at the top of the order. Next comes the assistant principal, then the teachers and students.

In the pecking order of chickens, the most aggressive chicken is the leader. The leader is the hen that uses her beak most often to peck the chickens she bosses. These chickens, in turn, boss other chickens by pecking them, and so on. Chickens can peck all others who are "below" them in the pecking order. They never peck "above" themselves by pecking their bosses.

Directions: Answer these questions about chickens.

1. Put this pecking order of four chickens in order.

$\qquad$ This chicken pecks numbers 3 and 4 but never 1 .
$\qquad$ No one pecks this chicken. She's the top boss.
$\qquad$ This chicken can'† peck anyone.
$\qquad$ This chicken pecks chicken number 4.
2. Use context clues to figure out the definition of aggressive. $\qquad$
$\qquad$
$\qquad$
3. Who is at the top of the pecking order in a school? $\qquad$

## Review

Directions: Follow the instructions for each section.

1. Write a summary of the selection "All About Sheep" (page 120).
2. What is the purpose of a pig's bristles?
$\qquad$
$\qquad$
$\qquad$
3. Write a summary of the selection "No Kidding About Goats" (page 122).
4. What is the purpose of a cow's four stomachs?
$\qquad$
$\qquad$
$\qquad$
5. How do chickens establish leaders and followers?
$\qquad$
$\qquad$
$\qquad$
6. What is cud?
$\qquad$
$\qquad$

## Using Prior Knowledge: Stamp Collecting

Directions: Before reading about stamp collecting in the following section, answer these questions.

1. Why do you think people collect stamps?
2. What hobby do you most enjoy? Why?
3. Name at least six famous people who have been pictured on a stamp.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Why do you think the postal service issues many different stamps each year? Why not just issue one stamp?
$\qquad$
$\qquad$
$\qquad$
5. Most stamps today are self-stick stamps. What are the benefits of these stamps? Do you think these create any drawbacks for collectors?

## Fact or Opinion?

Directions: Read the paragraphs below. Then, in the corresponding numbered blanks, write whether each numbered sentence is a fact or an opinion.
(1) An important rule for stamp collectors to follow is never to handle stamps with their fingers. (2) Instead, to keep the stamps clean, collectors use stamp tongs to pick up stamps. (3) Stamps are stored by being placed on mounts. (4) Stamp mounts are plastic holders that fit around the stamp and keep it clean. (5) The backs of the mounts are sticky, so they can be stuck onto a stamp album page. (6) What a great idea!
(7) The stamps are mounted in stamp albums that have either white or black pages. (8) Some people prefer black pages, claiming that the stamps "show" better. (9) Some people prefer white pages, claiming that they give the album a cleaner look. (10) I think this foolish bickering over page colors is ridiculous!

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$


## Comprehension: More Stamp Collecting

Many people collect stamps in blocks of four. Each stamp in the block is stuck to the other stamps along the edges. Collectors do not tear the stamps apart from one another. They buy blocks of stamps bearing new designs directly from the post office. Then, they mount the blocks of stamps and place them in their albums.

Collectors also get their stamps off of envelopes. This is a bit tricky, because the stamps are glued on. Usually, collectors soak the stamps in warm water to loosen the glue. Then, they gently pull the stamps from the paper and let them dry before mounting them.

Some beginners start their collections by buying a packet of mixed stamps. The packets, or bags, contain a variety of different stamps. Beginners buy these packets from companies that supply stamps to philatelists (fun-lay-tell-lists). Philately (fuh-lay-tell-lee) is the collection and study of postage stamps. Philatelists are the people who collect and study them.

Packets of stamps usually contain stamps from many different countries. Often, they contain duplicates of some of the stamps. Suppliers usually don't sort the stamps that go into the packets for beginners. They leave that for beginning philatelists to enjoy!

Directions: Answer these questions about stamp collecting.

1. Name three places some people get stamps. $\qquad$
2. What is the word that describes the collection and study of stamps? $\qquad$
3. What are people called who collect and study stamps? $\qquad$
4. The bag that a mixture of stamps comes in is called a
$\square$ postal bag. $\quad \square$ packet. $\quad \square$ philatelist.
5. Do stamp mixtures usually include only U.S. stamps?
$\square$ Yes $\quad \square$ No


## Recalling Details: Philately Abbreviations

Like other hobbies, philately has its own jargon and symbols. Collectors and dealers know what they mean, but outsiders would be puzzled if they saw the following abbreviations without their definitions. Read them carefully, and then refer to them when answering the questions below.
Avg. - average condition $\quad \mathbf{M}-\operatorname{mint}$ (excellent and unused) condition
blk. - block of four stamps $\mathbf{s}$ - single stamp
C - cancelled (used) stamp
U - used stamp
$\mathbf{O G}$ - original gum
VF - very fine condition
(glue on back of stamp)
G - good condition
Wmk - watermark (can occur when water
is used to remove stamp from envelope)
Directions: Answer these questions about the abbreviations used by stamp dealers and collectors.

1. If a philatelist wrote the following description, what would he or she mean?

I have a blk. in VF. $\qquad$
$\qquad$
2. What does this mean? $\mathbf{s}$ with $\mathbf{O G}$, condition $\mathbf{M}$ $\qquad$
$\qquad$
3. What other abbreviation would most likely be used do describe a used (U) stamp?
4. What does this mean? sin Avg. with Wmk $\qquad$
5. Which is more valuable, a rare stamp in $\mathbf{M}$ or $\mathbf{V F}$ condition? $\qquad$
6. Would you rather own a single U stamp or a blk. in M? $\qquad$

## Comprehension: Faces on Stamps

Most faces that appear on postage stamps are of famous people who are no longer alive. Until 2011, the U.S. Postal Service had a rule that no living people could be featured on stamps. In fact, a person had to be deceased for five years before appearing on a stamp. The Postal Service changed the rule in 2011. The actors from the Harry Potter movies were among the first to be honored on a series of stamps.

Many U.S. presidents' faces have been on postage stamps, as have pictures of the faces of other important people in U.S. history. Some people's faces have been on many different stamps. Through the years, George Washington and Benjamin Franklin have been on dozens of different types of stamps!

Other people whose pictures have been on stamps include John Quincy Adams, the sixth president of the United States; Jane Addams, a U.S. social worker and writer; Louisa May Alcott, author of Little Women and many other books; Clara Barton, nurse and founder of the American Red Cross; Alexander Graham Bell, inventor of the telephone; and poet, Emily Dickinson. These are only a few of the hundreds of famous Americans whose faces have appeared on U.S. postage stamps.

Directions: Answer these questions about some of the people whose faces have appeared on U.S. stamps.


1. Name six occupations of people whose faces have appeared on postage stamps.
2. What two people's pictures have appeared on more stamps than on any others?
3. What living person do you think should appear on a stamp? Why does he or she deserve this honor? $\qquad$
4. Which person featured on a postage stamp was a social worker?
$\square$ Clara Barton $\quad \square$ Louisa May Alcott $\quad \square$ Jane Addams
5. Which person featured on a postage stamp was an inventor?

$\square$
Emily Dickinson $\square$ Alexander Graham Bell

$\square$John Quincy Adams

## Comprehension: Valuable Stamps

Most people collect stamps as a hobby. They spend small sums of money to get the stamps they want, or they trade stamps with other collectors. They rarely make what could be considered "big money" from their philately hobby.

A few collectors are in the business of philately as opposed to the hobby. To the people who can afford it, some stamps are very valuable. For example, a U.S. airmail stamp with a face value of 24 cents when it was issued in 1918 is now worth more than $\$ 35,000$ if a certain design appears on the stamp. Another stamp, the British Guiana, an ugly stamp that
 cost only a penny when it was issued, later sold for $\$ 280,000$ !

The Graf Zeppelin is another example of an ugly stamp that became valuable. Graf Zeppelin is the name of a type of airship, similar to what we now call a blimp, invented around the turn of the century. Stamps were issued to mark the first roundtrip flight the Zeppelin made between two continents. A set of three of these stamps cost $\$ 4.55$ when they were issued. The stamps were ugly, and few of them sold. The Postal Service destroyed the rest. Now, because they are rare, each set of the Graf Zeppelin stamps is worth hundreds of dollars.

Directions: Answer these questions about valuable stamps.

1. What is the most valuable stamp described? $\qquad$
2. For how much did this stamp originally sell? $\qquad$
3. What did a collector later pay for it? $\qquad$
4. The Graf Zeppelin stamps originally sold for $\$ 4.55$ for a set of
$\square$ four.
$\square$ six. $\square$ three.
5. Which stamp did the Postal Service destroy because it didn't sell?
$\square$ Graf Zeppelin $\square$ British Zeppelin

## Fact or Opinion?

Directions: Read the paragraphs below. Then, in the corresponding numbered blanks, write whether each numbered sentence is a fact or an opinion.
(1) Nearly every valuable stamp on Earth has been counterfeited (coun-ter-fit-tid) at one time or another. (2) A counterfeit is a fake that looks nearly identical to the original. (3) It takes a lot of nerve to try to pass off counterfeits as the real thing. (4) Counterfeiting is big business, especially with stamps from overseas. (5) Because a collector often has no original for comparison, he or she can be easily fooled by a good counterfeit!
(6) One way people can make sure a stamp is real is to have it checked by a company that authenticates (aw-then-ti-kates) stamps. (7) To authenticate means to prove the stamp is real. (8) Of course, there is a fee for this service. (9) But I think paying a reasonable fee is worth what collectors get in return. (10) Those counterfeiters should be locked up forever!

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$

## Comprehension: Stamp Value

It's nearly impossible to predict which stamps will rise in value. Why? Because the value is based on the law of supply and demand. How much does someone or a group of "someones" want a particular stamp? If many people want a stamp, the value will increase, especially if few of the stamps exist.

However, collectors are also always on the lookout for things that can lower the value of a stamp. Are the stamp's perforations (per-four-ay-shuns) torn along the edges? (Perforations are ragged edges where stamps tear apart.) Is there a watermark on the stamp? Has the gum worn off the back? All these things can make a stamp less valuable.

Directions: Answer these questions about determining the value of stamps.


1. Name three things that can lower the value of a stamp.
2. Collecting stamps is a fascinating hobby.

Fact
Opinion
3. What is one thing the value of stamps is based upon? $\qquad$
4. What will happen if many people want a rare stamp? $\qquad$
$\qquad$
5. Explain how to spot a stamp that will become valuable. $\qquad$
$\qquad$
$\qquad$

## Review

Directions: Follow the instructions below.

1. Define the following words from this section. mount: $\qquad$
bickering: $\qquad$
philately: $\qquad$
counterfeit: $\qquad$
authenticate: $\qquad$
perforations: $\qquad$
2. Choose two of the words above, and use each in a sentence.
a)
b)
3. Write a one-sentence main idea for the selection "Stamp Value" (page 134).
$\qquad$
$\qquad$
4. Write a summary of the selection "Faces on Stamps" (page 131).
$\qquad$
$\qquad$
$\qquad$
5. Write a summary of the selection "More Stamp Collecting" (page 129).

## Using Prior Knowledge: Cooking

Directions: Before reading about cooking in the following section, answer these questions.

1. What is your favorite recipe? Why?
2. What do you most like to cook? Why?
$\qquad$
$\qquad$
$\qquad$
3. Have you tried food from cultures other than your own? If so, which type of food do you like most? Why?
$\qquad$
$\qquad$
$\qquad$
4. Why is it important to follow the correct sequence when preparing a recipe?
$\qquad$
$\qquad$
$\qquad$
5. What safety precautions must be followed when working in a kitchen?

## Following Directions: Chunky Tomato and Green Onion Sauce

Following directions means to do what the directions say to do, step by step, in the correct order.

Directions: Read the recipe for chunky tomato and green onion sauce. Answer the questions below.

## Ingredients:

- 2 tablespoons corn oil
- 2 cloves of garlic, finely chopped
- $1 \frac{1}{2}$ pounds plum tomatoes, cored, peeled, seeded, then coarsely chopped
- 3 green onions, cut in half lengthwise, then thinly sliced
- salt
- freshly ground pepper


Heat oil in a heavy skillet over medium heat. Add garlic, and cook until yellow, about 1 minute. Stir in tomatoes. Season with salt and pepper. Cook until thickened, about 10 minutes. Stir in green onions and serve.

1. What is the last thing the cook does to prepare the tomatoes before cooking them?
2. What kind of oil does the cook heat in the heavy skillet? $\qquad$
3. How long should the garlic be cooked? $\qquad$
4. What does the cook do to the tomatoes right before removing the seeds?
5. Is the sauce served hot or cold?

## Comprehension: Cooking with Care

People are so busy these days that many have no time to cook. This creates a problem, because most families love home cooking! The food tastes good and warm, and a family meal brings everyone together. In some families, meals are often the only times everyone sees one another at the same time.

Another reason people enjoy home cooking is
 that it is often more nutritious than prepared foods. Restaurant meals and prepared foods are often much higher in fat, salt, and preservatives. At home, people tend to make more wholesome foods. You know what every ingredient in a meal is when you cook from home!

There's also something about the smell of good cooking that appeals to people of all ages. It makes most of us feel secure and loved-even if we are the ones doing the cooking! Next time you smell muffins baking, stop for a moment and pay attention to your mood. Chances are, the good smell is making you feel happy.

Real estate agents know that good cooking smells are important. They sometimes advise people whose homes are for sale to bake cookies or bread if prospective buyers are coming to see the house. The good smells make the place "feel like home." These pleasant smells help convince potential buyers that the house would make a good home for their family, too!

Directions: Answer these questions about good cooking.

1. Why do fewer people cook nowadays?
2. Why are family meals important?
3. Why are home-cooked meals usually more nutritious than prepared foods?
4. Real estate agents often advise home sellers holding open houses to
$\square$ clean the garage. $\quad \square$ bake cookies or bread.
5. The smell of baking at open houses may encourage buyers to
$\square$ bake cookies. $\square$ buy the house. $\square$ bake bread.

## Sequencing: Pumpkin-Nut Muffins

$2 \frac{1}{4}$ cups flour
2 teaspoons pumpkin pie spice
$1 \frac{1}{2}$ teaspoons baking soda
1 teaspoon ground ginger
$\frac{1}{4}$ teaspoon salt
$\frac{1}{2}$ cup chopped pecans
1 cup packed brown sugar

1 cup canned pumpkin
$\frac{1}{3}$ cup buttermilk
$\frac{1}{3}$ cup canola oil
$\frac{1}{4}$ cup maple syrup
1 teaspoon vanilla extract
2 large eggs

Before you begin, preheat the oven to $400^{\circ}$. Combine the flour, pumpkin pie spice, baking soda, ginger, and salt in a medium bowl. Stir the dry ingredients with a whisk. Stir in the nuts. Next, make a well in the center of the mixture. In a separate bowl, combine the brown sugar, canned pumpkin, buttermilk, canola oil, maple syrup, vanilla extract, and eggs. Stir well with a whisk. Now, add the sugar mixture to the flour mixture, and stir just until moist.

Scoop the batter into 18 muffin cups coated with cooking spray. Bake at $400^{\circ}$ for about 15 minutes, or until a wooden pick inserted in the center of a muffin comes out clean. Cool the muffins on a wire rack. Eat and enjoy!

Directions: Number in correct order the steps for making pumpkin-nut muffins.
$\qquad$ Combine the dry ingredients.
$\qquad$ Stir in the nuts.
$\qquad$ Whisk together the wet ingredients.
$\qquad$ Cool the muffins on a wire rack.
$\qquad$ Preheat the oven to $400^{\circ}$.
$\qquad$ Add the sugar mixture to the flour mixture.
Eat and enjoy!
Make a well in the center of the mixture.


## Comprehension: Eating High-Fiber Foods

Have you heard your parents or other adults talk about "highfiber" diets? Foods that are high in fiber, like oats and other grains, are believed to be very healthy. Here's why: The fiber adds bulk to the food the body digests and helps keep the large intestines working properly. Corn, oatmeal, apples, celery, nuts, and other chewy foods also contain fiber that helps the body's systems for digesting and eliminating food keep working properly.

Researchers at the University of Minnesota have found another
 good reason to eat high-fiber food, especially at breakfast. Because fiber is bulky, it absorbs a lot of liquid in the stomach. As it absorbs the liquid, it swells. This fools the stomach into thinking it's full. As a result, when lunchtime comes, those who have eaten a high-fiber breakfast are not as hungry. They eat less food at lunch. Without much effort on their parts, dieters eating a high-fiber breakfast can lose weight.

The university researchers say a person could lose 10 pounds in a year just by eating a high-fiber breakfast! This is good news to people who are only slightly overweight and want an easy method for losing that extra 10 pounds.

Directions: Answer these questions about eating high-fiber foods.

1. Why is fiber healthy? $\qquad$
2. How does fiber fool the stomach? $\qquad$
$\qquad$
3. Name four examples of healthy, fiber-rich foods. $\qquad$
4. How many pounds could a dieter eating a high-fiber breakfast lose in a year?
$\square$ 20 pounds $\square$ 30 pounds
$\square$
10 pounds
5. The university that did the research is in which state?
$\square$ Michigan $\square$ Minnesota $\square$ Montana

## Main Idea: New Corn

I will clothe myself in spring clothing And visit the slopes of the eastern hill. By the mountain stream, a mist hovers, Hovers a moment and then scatters.

Then comes a wind blowing from the south That brushes the fields of new corn.


Directions: Answer these questions about this ancient poem, which is translated from Chinese.

1. Circle the main idea:

The poet will dress comfortably and go to where the corn grows so he or she can enjoy the beauty of nature.

The poet will dress comfortably and visit the slopes of the eastern hill, where he or she will plant corn.
2. From which direction does the wind blow? $\qquad$
3. Where does the mist hover? $\qquad$
4. What do you think the poet means by "spring clothing"? $\qquad$

## Comprehension: The French Eat Differently

Many people believe that French people are very different from Americans. This is certainly true where eating habits are concerned! Obesity rates are about three times higher in America than they are in France. And yet, the French are known for their rich cheeses and delicious pastries. So how do the French manage to stay fit and healthy? There are several differences between the eating habits of Americans and the French.

One difference has to do with quality versus quantity. In America, portion sizes are known for being very large. In France, portions are much smaller, which means the French consume fewer calories. Also, when the foods are high quality, a small amount can be very satisfying.

In general, the French also really savor and enjoy their food. Americans are often in a hurry and rush through meals. Eating quickly or mindlessly can lead to overeating. The French take their time with meals. They eat more slowly, which gives the body a chance to recognize when it is full.

Finally, the French tend to cook at home more often than Americans do. In the United States, eating out is a popular pastime. It is convenient, and it's also enjoyable. The problem is that restaurant foods and processed foods are higher in fat and calories. Eating at home, like the French tend to do, results in healthier meals.

French meals are high in quality and flavor, and the French leave a meal feeling satisfied. Their eating habits keep them fit and healthy. Eating like the French could make America healthier, too!

Directions: Answer these questions about the eating habits of French and American people.

1. Why is it surprising that the French tend to be healthy and have low rates of obesity?
2. Are Americans or the French more likely to rush through meals?
3. Why is eating at home generally a better idea than eating out or eating processed foods?
4. What is the difference between portion sizes in France and America?
5. What is a benefit of eating slowly?

## Comprehension: Chinese Cabbage

Many Americans enjoy Chinese food. It's a popular take-out meal in cities across the United States. Because it tastes so good, many people are curious about the ingredients in Chinese food. Siu choy and choy sum are two types of Chinese cabbage that many people enjoy eating. Siu choy grows to be 2 to 3 feet! Of course, it is chopped into small pieces before it is cooked and served. Its leaves are light green and soft. It is not crunchy like American cabbage. Siu choy
 is used in soups and stews. Sometimes, it is pickled with vinegar and other ingredients and served as a side dish to other courses.

Choy sum looks and tastes different from siu choy. Choy sum grows to be only 8 to 10 inches. It is a flowering cabbage that grows small yellow flowers, which are edible. Its leaves are long and bright green. After its leaves are boiled for four minutes, choy sum is often served as a salad. Oil and oyster sauce are mixed together and poured over choy sum as a salad dressing.

Directions: Answer these questions about Chinese cabbage.


1. Which Chinese cabbage grows small yellow flowers? $\qquad$
2. Which Chinese cabbage is served as a salad? $\qquad$
3. Is siu choy crunchy? $\qquad$
4. What ingredients are in the salad dressing used on choy sum?
5. To what size does siu choy grow? $\qquad$
6. Name two main dishes in which siu choy is used. $\qquad$

## Review

Here's a recipe for a special mashed potato treat that serves two people. The recipe is fast and easy to follow, and the results are delicious!

Begin by peeling two large potatoes and cooking them in a pot of boiling water. When a fork or knife inserted into them pulls out easily, you will know they are done. Then, take them from the pot, and drain them well. Place them in a large mixing bowl, and add 2 tablespoons of milk and 2 tablespoons of butter. Mash with a potato masher until the lumps are gone.

In a skillet, melt a tablespoon of butter, and add one bunch of chopped green onions. Cook them about 1 minute. Add them to the potatoes, and mix gently. Season with salt and pepper. Serve and eat!

Directions: Answer these questions about how to make mashed potatoes with green onions.

1. Circle the main idea:

This recipe is fast and easy, and the potatoes are delicious.


This recipe has only four ingredients (plus salt and pepper).
2. Name the main ingredients in this recipe (not including salt and pepper).
3. How many people does this recipe serve? $\qquad$
4. Number in order the steps for making mashed potatoes with green onions.
$\qquad$ Cook the chopped green onions for 1 minute.
$\qquad$ Peel two potatoes.
$\qquad$ Season with salt and pepper and serve.
$\qquad$ Put the cooked potatoes in a bowl with milk and butter, then mash.
$\qquad$ Add the onions to the mashed potatoes.
$\qquad$ Boil the potatoes until they are done.

## Using Prior Knowledge: Greek and Roman Mythology

Directions: Before reading about Greek and Roman mythology in the following section, answer these questions.

1. Hercules is a man from Greek and Roman mythology. Write a short paragraph describing what you know about Hercules.
$\qquad$
$\qquad$
$\qquad$
2. Can you think of anything today that derived its name from a Greek or Roman myth?
$\qquad$
$\qquad$
$\qquad$
3. Compare and contrast what you know of Greek and Roman beliefs about mythology with your beliefs.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Many constellations are named after gods, goddesses, and mythical creatures. Name at least six.

## Comprehension: Roman Legends

Long ago, people did not know as much about science and astronomy as they do today. When they did not understand something, they thought the gods were responsible. The ancient Romans believed there were many gods and that each god or goddess (a female god) was responsible for certain things.

For example, the Romans believed Ceres (Sir-eez) was the goddess who made flowers, plants, trees, and other things grow. She was a lot like what people today refer to as Mother Nature. Ceres was also responsible for the good weather that made crops grow. You can see
 why Ceres was such an important goddess to the ancient Romans.

Apollo was the god of the sun. People believed he used his chariot to pull the sun up each day and take it down at night. Apollo was extremely good-looking. His home was a golden palace near the sun surrounded by fluffy white clouds. Apollo had to work every single day, but he lived a wonderful life.

Jupiter was the most important god of all. He was the god who ruled all of the other gods, as well as the people. Jupiter was also called Jove. Maybe you have heard someone use the exclamation, "By Jove!" That person is talking about Jupiter! The word father is derived from the word Jupiter. Although he did not really exist, Jupiter influenced our language.

Directions: Answer these questions about Roman legends.

1. What imaginary figure is Ceres compared to today? $\qquad$
2. Where did Apollo live? $\qquad$
3. The word father is derived from the name of this god:

4. Which is not true of Apollo?

$\square$He had to work every day.
$\square$ He lived in a mountain cave.
$\square$ He was very handsome.

## Comprehension: Apollo and Phaethon



Apollo, the sun god, had a son named Phaethon (Fay-athun). Like most boys, Phaethon was proud of his father. He liked to brag to his friends about Apollo's important job, but no one believed that the great Apollo was his father.

Phaethon thought of a way to prove to his friends that he was telling the truth. He went to Apollo and asked if he could drive the chariot of the sun. If his friends saw him making the sun rise and set, they would be awestruck!

Apollo did not want to let Phaethon drive the chariot. He was afraid Phaethon was not strong enough to control the horses. But Phaethon begged until Apollo gave in. "Stay on the path," Apollo said. "If you dip too low, the sun will catch Earth on fire. If you go too high, people will freeze."
Unfortunately, Apollo's worst fears came true. Phaethon could not control the horses. He let them pull the chariot of the sun too close to Earth. To keep Earth from burning, Jupiter, father of the gods, sent a thunderbolt that hit Phaethon and knocked him from the driver's seat. When Phaethon let go of the reins, the horses pulled the chariot back up onto the proper path. Phaethon was killed as he fell to Earth. His body fell and became a shooting star.

Directions: Answer these questions about the Roman legend of Apollo and his son.

1. Who did not believe Apollo was Phaethon's father? $\qquad$
2. What did Phaethon do to prove Apollo was his father? $\qquad$
3. Why did Jupiter send a lightning bolt? $\qquad$
4. Which was not a warning from Apollo to Phaethon?


Don't go too close to Earth. It will burn up.
$\square$ Don't pet the horses. They will run wild.
$\square$ Don't go too far from Earth. It will freeze.

## Context Clues: Mighty Hercules

Some people lift weights to build their strength. But Hercules (Her-cu-lees) had a different idea. He carried a calf on his shoulders every day. As the calf grew, it got heavier, and Hercules got stronger. Eventually, Hercules could carry a full-grown bull!

Hercules used his enormous strength to do many kind things. He became famous. Even the king had heard of Hercules! He called for Hercules to kill a lion that had killed many people in his kingdom. Hercules tracked the lion to its den and strangled it. Then, Hercules made clothes for himself from the lion's skin. This kind of apparel was unusual, and soon Hercules was recognized everywhere he went. Hercules was big, and his clothes made it easy to pick him out in a crowd!

The king asked Hercules to stay in his kingdom and help protect the people who lived there. Hercules performed many feats of strength and bravery. He caught a golden deer for the king. The deer had outrun everyone else. Then, Hercules killed a giant, a dragon, and other dangerous creatures. Hercules became a hero and was known throughout the kingdom.

Directions: Answer these questions about Hercules.

1. Use context clues to choose the correct definition of enormous.
$\square$ huge $\square$ tiny $\square$ smart
2. Use context clues to choose the correct definition of strangle.
 choke
 tickle
3. Use context clues to choose the correct definition of den.
$\square$ pond $\square$ hutch $\square$ home
4. Use context clues to choose the correct definition of apparel.
$\square$ appearance $\square$ clothing $\square$ personality
5. Use context clues to choose the correct definition of feat.
$\square$
$\square$ treat


## Comprehension: Ceres and Venus

Remember Ceres? She was like Mother Nature to the ancient Romans.

Ceres made the flowers, plants, and trees grow. She made crops come up and rain fall. Ceres was a very important goddess. The ancient Romans depended on her for many things.

Although the gods and goddesses were important, they had faults like ordinary people. They argued with one another. Sometimes they got mad and lost their tempers. This is what happened to Ceres and another goddess named Venus (Veen-us). Venus, who was the goddess of love and beauty, got mad at Ceres. She decided to hurt Ceres by causing Pluto, gloomy god of the underworld, to fall in love with Cere's daughter, Proserpine (Pro-sur-pin-ay).


To accomplish this, Venus sent her son Cupid to shoot Pluto with his bow and arrow. Venus told Cupid that the man shot by this arrow would then fall in love with the first woman he saw. Venus instructed Cupid to make sure that woman was Ceres's daughter. Cupid waited with his bow and arrow until Pluto drove by Ceres's garden in his chariot. In the garden was Proserpine. Just as Pluto's chariot got near her, Cupid shot his arrow.

Ping! The arrow hit Pluto. It did not hurt, but it did its job well. Pluto fell instantly in love with poor Proserpine, who was quietly planting flowers. Pluto was not a gentleman. He did not even introduce himself! Pluto swooped down and carried Proserpine off in his chariot before she could call for help.

Directions: Answer these questions about Ceres and Venus.

1. With whom was Venus angry? $\qquad$
2. How did Venus decide to get even?
3. Ceres's daughter's name was
$\square$ Persperpine. $\square$ Prosperline. $\square$ Proserpine.
4. Venus's son's name was

$\square$ Cupid.

$\square$Persperpine.

## Comprehension: Proserpine and Pluto

Proserpine was terrified in Pluto's palace in the underworld. She missed her mother, Ceres, and would not stop crying.

When Ceres discovered her daughter was missing, she searched the whole Earth looking for her. Of course, she did not find her. Ceres was so unhappy about Proserpine's disappearance that she refused to do her job, which was to make things grow. When Ceres did not work, rain could not fall and crops could not grow. Finally,
 Ceres went to Jupiter for help.

Jupiter was powerful, but so was Pluto. Jupiter told Ceres he could get Proserpine back from Pluto if she had not eaten any of Pluto's food. As it turned out, Proserpine had eaten something. She had swallowed six seeds from a piece of fruit. Because he felt sorry for the people on Earth who were suffering, Pluto told Jupiter that Proserpine could return temporarily to Ceres so she would cheer up and make crops grow again. But Pluto later came back for Proserpine and forced her to spend six months each year with him in the underworldone month for each seed she had eaten. Every time she returned to the underworld, Ceres mourned and refused to do her job. This is how the Romans explained the seasons-when Proserpine is on Earth with Ceres, it is spring and summer; when Proserpine goes to the underworld, it is fall and winter.

Directions: Answer these questions about Proserpine and Pluto.

1. What happened to Ceres when Pluto took her daughter? $\qquad$
2. Whom did Ceres ask for help to get her daughter back? $\qquad$
3. Why did Proserpine have to return to Pluto's underworld? $\qquad$
4. How long did Proserpine have to stay in the underworld each time she returned?

## Comprehension: Orpheus Saves the Day



Orpheus (Or-fee-us) was a talented Greek musician. Once, by playing beautiful music on his lyre (ly-er), he caused a ship that was stuck in the sand to move into the water. (A lyre is a stringed instrument that looks like a small harp and fits in the musician's lap.) The song was about how wonderful it was to sail upon the sea. The ship itself must have thought the song was wonderful, too, because it slipped into the water and sailed away!

There was a reason the ship understood Orpheus's song. Inside the ship was a piece of wood that a goddess had given to the captain of the ship. The captain's name was Jason. Once, Jason had helped an old woman across a deep river. He later learned that the old woman was a goddess. To thank him, the goddess gave Jason a piece of wood that could talk. She told him to use the wood when he built a new ship. If he ever got stuck while building the ship and did not know what to do, the goddess told Jason to ask the wood.

Several times, Jason and his crew got instructions from the wood. Finally, the ship was finished. It was beautiful and very large. Because it was so big, Jason and his men were unable to move it into the water. They called on Hercules for help, and even he could not make it budge. That's when Orpheus saved the day with his lyre.

Directions: Answer these questions about Orpheus's amazing talent.

1. Who owned the ship that was stuck? $\qquad$
2. Where was the ship stuck? $\qquad$
3. Why did the ship get stuck? $\qquad$
4. A lyre looks like what other instrument?
$\square$ harmonica $\quad \square$ guitar $\quad \square$ harp
5. Who did Jason first ask for help to move the ship?

$\square$ Hercules

$\square$Jupiter

## Review

Directions: Follow the instructions below.

1. Define the following words from this section.
astronomy: $\qquad$
reins: $\qquad$
lyre: $\qquad$
centaur: $\qquad$
minotaur: $\qquad$
myth: $\qquad$
2. Choose two words from above, and use each in a sentence.
a)
b)
3. Write a summary of the selection "Mighty Hercules" (page 148).
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Complete the sequence of events from the selection "Proserpine and Pluto" (page 150).
a) Pluto fell in love with Proserpine and kidnapped her in his chariot.
b) $\qquad$
c) $\qquad$
d) $\qquad$
e) $\qquad$

## Using Prior Knowledge: Famous Ships

Directions: Before reading about famous ships in the following section, answer these questions.

1. Look up the following terms in a dictionary, and write their definitions.
vessel: $\qquad$
bow: $\qquad$
stern: $\qquad$
poop deck: $\qquad$
hull: $\qquad$
caravel: $\qquad$
mast: $\qquad$
frigate: $\qquad$
lateen: $\qquad$
spar: $\qquad$
fore: $\qquad$
aft: $\qquad$
2. Have you ever been on a large ship? If so, describe the experience. If not, on what kind of ship or boat would you like to ride? Why?
$\qquad$
$\qquad$
$\qquad$
3. Name at least one famous ship, and write what you know about it.

## Comprehension: The Constitution

The Constitution, or "Old Ironsides," was built by the United States Navy in 1798. Its success in battle made it one of the most famous vessels in the United States.
The Constitution's naval career began with the war with Tripoli from 1803 to 1804. Later, it was also used in the War of 1812. During this war, it was commanded by Isaac Hull. The Constitution won a 30-minute battle with the British ship, Guerriere, in August of 1812. The Guerriere was nearly demolished. Later that same year, the Constitution was used to capture a British frigate near Brazil.


The Constitution was taken out of service in 1829 and was rebuilt many times over the years. Today, it is on display at the Boston Navy Yard.

Directions: Answer these questions about the Constitution.

1. What is the main idea of the selection? $\qquad$
2. Which ship was almost demolished by the Constitution? $\qquad$
3. In which two wars was the Constitution used? $\qquad$
4. Where is the Constitution now on display? $\qquad$
5. Complete the following time line with dates and events described above.


## Comprehension: The Santa Maria, Niña, and Pinta

When Christopher Columbus decided to attempt a voyage across the ocean, the ships he depended upon to take him there were called "caravels." A caravel is a small sailing ship built by Spain and Portugal in the 15 th and 16th centuries. The caravels Columbus used to sail to the New World were named the Santa Maria, Niña, and Pinta.

The ships were not very large. It is believed the Santa Maria was only 75 to 90 feet long, and the Niña and Pinta were only about 70 feet long. Caravels typically had three to four masts with sails attached. The foremast carried a square sail, while the others were more triangular in shape. These triangular-shaped sails were called "lateen sails."
These three small ships were quite seaworthy and proved excellent ships for Columbus. They carried him safely to the other side of the world!

Directions: Answer these questions about the Santa Maria, Niña, and Pinta.

1. What is a lateen sail? $\qquad$
2. What is the main idea of the selection? $\qquad$
$\qquad$
$\qquad$
3. What is a caravel? $\qquad$
4. Where did Columbus sail in his caravels?
5. Do some research, and compare a 15th-century caravel with a ship built in the 20th century.

## Comprehension: The Lusitania

The Lusitania was a British passenger steamship. It became famous when it was torpedoed and sunk by the Germans during World War I. On May 7, 1915, the Lusitania was traveling off the coast of Ireland when a German submarine fired on it without warning. The ship stood no chance of surviving the attack and sunk in an astonishing 20 minutes. Of the 1,198 people who perished, 128 were American citizens. At the time the ship was torpedoed, the United States was not yet involved in the war. Public opinion over the attack put pressure on President Woodrow Wilson to declare war on Germany. The Germans proclaimed that the Lusitania was carrying weapons for the allies.
This claim was later proven to be true. President Wilson demanded that the German government apologize for the sinking and make amends. Germany did not accept responsibility but did promise to avoid sinking any more passenger ships without first giving a warning.

Directions: Answer these questions about the Lusitania.

1. What does proclaimed mean?
2. What does perished mean? $\qquad$
3. What does amends mean? $\qquad$
4. What does allies mean? $\qquad$
5. If the Lusitania was carrying arms, do you think the Germans had a right to sink it? Why or why not?

## Comprehension: The Titanic



The British passenger ship, Titanic, debuted in the spring of 1912. It was billed as an unsinkable ship due to its construction. It had 16 watertight compartments that would hold the ship afloat even in the event that four of the compartments were damaged.

But on the evening of April 14, 1912, during Titanic's first voyage, its design proved unworthy. Just before midnight, Titanic struck an iceberg, which punctured 5 of the 16 compartments. The ship sunk in a little under 3 hours.
Approximately 1,513 of the over 2,220 people onboard died. Most of these people died because there weren't enough lifeboats to accommodate everyone onboard. These people were left floating in the water. Many died from exposure, since the Atlantic Ocean was near freezing in temperature. It was one of the worst ocean disasters in history.

Because of the investigations that followed the Titanic disaster, the passenger ship industry instituted many reforms. It is now required that there is ample lifeboat space for all passengers and crew. An international ice patrol and full-time radio coverage were also instituted to prevent such disasters in the future.

Directions: Answer these questions about the Titanic.

1. How did most of the 1,513 people onboard the Titanic die? $\qquad$
2. Why did this "unsinkable" ship sink? $\qquad$
$\qquad$
3. What changes have been made in ship safety as a result of the Titanic tragedy?
4. There have been many attempts to rescue artifacts from the Titanic. But many families of the dead wish the site to be left alone, as it is the final resting place of their relatives. They feel burial sites should not be disrupted. Do you agree or disagree? Why?

## Venn Diagram: Lusitania and Titanic

A Venn diagram is used to chart information that shows similarities and differences between two things.

## Example: <br> Dogs

bark
dependent
large and small breeds protect the home

## Both

good pets
can live inside or outside
have fur
four legs

## Cats

one size
kill mice
can use litterbox independent

Directions: Complete the Venn diagram for the Lusitania and the Titanic.


## Comprehension: The Monitor and the Virginia



During the Civil War, it became customary to cover wooden warships with iron. This increased their durability and made them more difficult to sink. Two such ships were built using iron. They were the Monitor and the Virginia.

Most people are more familiar with the name the Merrimack. The Merrimack was a U.S. steam frigate that had been burnt and sunk by Union forces when the Confederates were forced to abandon their navy yard. The Confederate Navy raised the hull of the Merrimack and rebuilt her as the ironclad Virginia.

Both the Monitor and the Virginia engaged in battle on March 9, 1862. After several hours of battle, the bulky Virginia had no choice but to withdraw in order to avoid the lowering tides. This battle, called Hampton Roads, was considered to be a tie between the two ships.

Although both ships survived the battle, they were later destroyed. Two months later, the Virginia was sunk by her crew to avoid capture. The Monitor sunk on December 31, 1862, during a storm off the coast of North Carolina.

Directions: Use context clues for these definitions.

1. customary: $\qquad$
2. durability: $\qquad$
3. ironclad: $\qquad$
Directions: Answer these questions about the Monitor and the Virginia.
4. Who won the battle between the Virginia and the Monitor? $\qquad$
5. Why would lowering tides present danger to a ship? $\qquad$
6. Describe how each ship was finally destroyed. $\qquad$
$\qquad$
$\qquad$
$\qquad$

## Review

1. Use the Venn diagram you completed comparing the Lusitania and the


Titanic (page 158) to write a two-paragraph compare/contrast essay about the two ships. Describe their similarities in the first paragraph and their differences in the second.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Describe the differences in the structure of the following ships: Santa Maria, Monitor, and Titanic.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Why did people think the Titanic was unsinkable? After the ship actually did sink, how do you think this affected the way people thought about new technology?

## Reading Comprehension: Railroads

Directions: Read the information about railroads. Then, answer the questions.
As early as the 1550s, a rough form of railroad was already being used in parts of Europe. Miners in England and other areas of western Europe used horse- or mule-drawn wagons on wooden tracks to pull loads out of mines. With these tracks, the horses could pull twice as much weight as they could without them. No one could have known then that one day this simple idea would change the world.

There were many developments along the way that helped make railroads a practical and valuable form of transportation. Two of the most important were the iron track and the "flanged" wheel, which has a rim around it to hold it onto the track. The most important invention was the steam engine by James Watt in 1765.

The first railroads in the United States were built during the late 1820s and caused a lot of excitement. They were faster than other forms of travel, and they could provide service year-round, unlike boats and stagecoaches. Trains were soon the main means of travel in the U.S.

Railroads played a major part in the Industrial Revolution-the years of change when machines were first used to do work that had been done by hand for many centuries. Trains provided cheaper rates and quicker service for transporting goods. Because manufacturers could ship their goods over long distances, they could sell their products all over the nation instead of only in the surrounding cities and towns. This meant greater profits for the companies. Trains also brought people into the cities to work in factories.

1. What was the source of power for the earliest railroads? $\qquad$
2. What were three important developments that made railroads a practical means of transportation?
$\qquad$
$\qquad$
$\qquad$

3. What is meant by the Industrial Revolution?
4. What were two ways that railroads changed life in America?

## Main Idea: Locomotives

Directions: Read the information about locomotives. Then, answer the questions.
In the 1800s, the steam locomotive was considered by many to be a symbol of the new Industrial Age. It was, indeed, one of the most important inventions of the time. Over the years, there have been many changes to the locomotive. One of the most important has been its source of power. During its history, the locomotive has gone from steam to electric to diesel power.

The first railroads used horses or mules for power, but the development of the steam locomotive made railroads a
 practical means of transportation. The first steam locomotive was built in 1804 in Great Britain by Richard Trevithick. It could haul 50,000 pounds, but it was not very successful because it was so heavy it caused the tracks to fall apart. However, it encouraged other engineers to try to build steam locomotives. Two of the most important men to accept the challenge were George Stephenson and his son, Robert. Robert once won a contest to build the best locomotive. The Rocket, as he called it, had a top speed of 29 miles per hour.

In America, developments in steam engines were close behind those of the British. In 1830, Peter Cooper's tiny locomotive, called Tom Thumb, lost a famous race against a horse-drawn coach. In spite of the loss, it still convinced railroad officials that steam power was more practical than horsepower.

Just before the turn of the century, the electric locomotive was widely used. At its peak in the 1940s, U.S. railroads had 2,400 miles of electric routes.

The diesel locomotive was invented in the 1890s by Rudolf Diesel, a German engineer. The power of this locomotive was supplied by a diesel fuel engine. The diesel locomotive is still used today. It costs about twice as much as a steam locomotive to build, but it is much cheaper to operate.

1. What is the main idea of this selection?

The steam locomotive was considered a symbol of the Industrial Age.
_ Over the years, there have been many changes to the locomotive.
2. Who built the first steam locomotive in 1804 ?
3. How fast could the Rocket travel?
4. Who built the locomotive called Tom Thumb?
5. Tom Thumb was in a race against a horse-drawn coach. Which won?
6. What kind of fuel does a diesel engine use?

## Review

Directions: Define these words as used in the selections "Railroads" and "Locomotives."

1. flanged wheel $\qquad$
$\qquad$
2. transportation $\qquad$
3. profit $\qquad$
4. locomotive $\qquad$
5. diesel $\qquad$
6. engineer $\qquad$
Directions: Use information from the selection "Locomotives" to create a time line of the invention of locomotives.
7. 

Directions: Write your answer in a complete sentence.

8. The world is going through another "revolution" in industry today. What new technology is leading this change, and how might it affect workers in the future?
$\qquad$
$\qquad$

## Reading Comprehension: Railroad Pioneer

Directions: Read the information about railroad pioneers. Then, answer the questions by
circling Yes or No.
George Stephenson was born in Wylam, England, in 1781. His family was extremely poor. When he was young, he didn'† go to school but worked in the coal mines. In his spare time, he taught himself to read and write. After a series of explosions in the coal pits, Stephenson built a miner's safety lamp. This helped bring him to the attention of the owners of the coal mines. They put him in charge of all the machinery.

In 1812, Stephenson became an engine builder for the mines. The
 owners were interested in locomotives because the cost of horse feed was so high. They wanted Stephenson to build a locomotive to pull the coal cars from the mines. His first locomotive, the Blucher, was put on the rails in 1814.

Stephenson was a good engineer, and he was fortunate to work for a rich employer. Between 1814 and 1826, Stephenson was the only man in Great Britain building locomotives.

When the Stockholm and Darlington Railway, the first public railroad system, was planned, Stephenson was named company engineer. He convinced the owners to use steam power instead of horses. He built the first locomotive on the line. The Locomotion, as it was called, was the best locomotive that had been built anywhere in the world up to that time. Over the years, Stephenson was responsible for many other important developments in locomotive design, such as improved cast-iron rails and wheels, and the first steel springs strong enough to carry several tons.

Stephenson was convinced that the future of railroads lay in steam power. His great vision of what the railroad system could become was a driving force in the early years of its development.

1. George Stephenson was an excellent student in school.
2. Stephenson's first invention was a miner's safety lamp.

Yes
No
3. Between 1814 and 1826 , Stephenson was one of many engineers building locomotives in Great Britain.

Yes
4. The Stockholm and Darlington Railway was the first public railroad system.

Yes No
5. The first locomotive on the Stockholm and Darlington line was the Locomotion, built by Stephenson.

Yes No
6. Stephenson's ideas did not influence the development of the railroad system.

$$
\text { Yes } \quad \text { No }
$$

## Tall Tales

A tall tale is a fictional story with exaggerated details and a "super" hero. The main character in a tall tale is much larger, stronger, smarter, or better than a real person. Tall tales may be unbelievable, but they are fun to hear.

America had nearly 200,000 miles of railroad track by 1900. Because of the rapid growth and the excitement over the railroads, many colorful tall tales about railroad heroes and their adventures were told.

Directions: Read the story about John Henry. Then, answer the questions.

## A Steel-Driving Man

On the night John Henry was born, forked lightning split the air and the earth shook. He weighed 44 pounds at birth, and the first thing he did was reach for a hammer hanging on the wall. "He's going to be a steel-driving man," his father told his mother.

One night, John Henry dreamed he was working on a railroad. Every time his hammer hit a spike, the sky lit up with the sparks. "I dreamed that the railroad was going to be the end of me, and I'd die with a hammer in my hand," he said. When John Henry grew up, he did work for the railroad. He was the fastest, most powerful steel-driving man in the world.

In about 1870, the steam drill was invented. One day, the
 company at the far end of a tunnel tried it out. John Henry's company, working at the other end, continued to use men to do the drilling. There was much bragging from both companies as to which was faster. Finally, they decided to have a contest. John Henry was matched against the best man with a steam drill.

John Henry swung a 20-pound hammer in each hand. The sparks flew so fast and hot that they burned his face. At the end of the day, the judges said John Henry had beaten the steam drill by 4 feet!

That night, John Henry said, "I was a steel-driving man." Then, he laid down and closed his eyes forever.

1. How much was John Henry said to have weighed at birth?
2. Why did his father think he would be a steel-driving man?
3. What invention was John Henry in a contest against? $\qquad$
4. Why was the contest held?
5. What tools did John Henry use in the contest?
6. Who won the contest?
7. What happened to John Henry after the contest?

## Tall Tales

Directions: Write a tall tale about yourself. Be sure to make it a fantastic and incredible story!
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Directions: Reread your tall tale. Does it make sense? Check and correct spelling and grammar mistakes. Does your story fit the category of tall tale?

## Context Clues: Passenger Cars

Directions: Read the information about passenger cars. Use context clues to determine the meaning of words in bold. Check the correct answers.

Early railroad passenger cars were little more than stagecoaches fitted with special wheels to help them stay on the tracks. They didn't hold many passengers, and because they were made out of wood, they were fire hazards. They also did not hold up very well if the train came off the track or had a collision with another train.


In the United States, it wasn't long before passenger cars were lengthened to hold more people. Late in the 1830s, Americans were riding in elongated cars with double seats on either side of a center aisle. By the early 1900s, most cars were made of metal instead of wood.

Sleeping and dining cars were introduced in the United States by the early 1860s. Over the next 25 years, other improvements were made, including electric lighting, steam heat, and covered vestibules that allowed passengers to walk between cars. All of these luxuries helped make railroad travel much more comfortable.

1. Based on the other words in the sentence, what is the correct definition of hazards?
$\qquad$ engines $\qquad$ risks $\qquad$ stations
2. Based on the other words in the sentence, what is the correct definition of collision?
$\qquad$
$\qquad$ race $\qquad$ track
3. Based on the other words in the sentence, what is the correct definition of elongated?
$\qquad$ wooden $\qquad$ new $\qquad$ lengthened
4. Based on the other words in the sentence, what is the correct definition of vestibules?
$\qquad$
$\qquad$ cars $\square$ depots
5. Based on the other words in the sentence, what is the correct definition of luxuries?
$\qquad$ additions $\qquad$ things offering the greatest comfort $\qquad$ inventions

## Reading Skills: Railroads

Directions: Read the information about railroads. Then, answer the questions.
When railroads became the major means of transportation, they replaced earlier forms of travel, like the stagecoach. Railroads remained the unchallenged leader for a hundred years. Beginning in the early 1900s, railroads faced competition from newer forms of transportation.

Today, millions of people have their own
 automobiles. Buses offer inexpensive travel between cities. Large trucks haul goods across the country. Airplanes provide quick transportation over long distances. The result has been a sharp drop in the use of trains.

Today, nearly all railroads face serious problems that threaten to drive them out of business. But railroads still provide low-cost, fuel-saving transportation that will remain important. One gallon of diesel fuel will haul about four times as much by railroad as by truck. In a time when the world is concerned about saving fuel, this is but one area in which the railroads still have much to offer.

1. What is the main idea of this selection?
$\qquad$ When railroads became the major means of transportation, they replaced earlier forms of travel.
Beginning in the early 1900s, railroads have faced competition from newer forms of transportation.
2. Based on the other words in the sentence, what is the correct definition of competition?
$\qquad$ businesses trying to get the same customers
_ problems
___ support

3. What are four newer forms of transportation that have challenged railroads?
4. One gallon of diesel fuel will haul about twice as much by railroad as by truck.

## Reading Comprehension: Printing

Directions: Read the information about printing. Then, answer the questions.
When people talk about printing, they usually mean making exact copies of an original document, such as a newspaper, magazine, or an entire book. The inventions that have allowed us to do this are some of the most important developments in history. Look around you at the many examples of printed materials. Can you imagine life without them?

Until the thirteenth century, all material had to be printed by hand, one copy at a time. To make a copy of a book took much time and effort.

The oldest known example of a printed book was made in China in 848 A.D. by Wang Chieh, who carved each page of a book by hand onto a block of wood. He then put ink on the wood and pressed it on paper. The idea of printing with wood blocks spread to Europe. The letters in these block
 books were made to look handwritten.

In about 1440, a German goldsmith named Johann Gutenberg developed the idea of movable type. He invented separate letters made of metal for printing. The letters could be joined together to make words and sentences. Ink was applied to the letters to print many copies of the same material. Because they were made of metal, the letters could be used over and over. This wonderful invention made it possible to have more printed material at a lower cost.

Gutenberg had other ideas that were important to printing. He developed a special type of ink that would stick to the new metal letters. Gutenberg's ideas were so successful that the process of printing went almost unchanged for more than 300 years.

1. In what country was the oldest known printed book made?
2. Who made the first printed book?
3. What is "movable type"?
4. Who developed the idea of movable type?
5. What was another one of Gutenberg's important inventions?

## Reading Comprehension: Newspapers

Directions: Read the information about newspapers. Then, answer the questions.

Newspapers keep us informed about what is going on in the world. They entertain, educate, and examine the events of the day. For millions of people worldwide, newspapers are an important part of daily life.

Newspapers are published at various intervals, but they usually come out daily or weekly. The number of newspapers has fallen in recent years. As more and more people have access to the Internet, there are many more ways for them to receive their news.

Some newspapers have many subscribers-people who pay to have each edition delivered to them. While some people choose to receive a paper copy of the newspaper, others use an online subscription and read the paper on a computer screen.

Newspapers provide a service to the community by providing information at little cost. But newspaper publishing is a business, so like other businesses, newspapers need to make money. They can keep the cost to subscribers low and still stay in business by selling space to businesses and individuals who want to advertise products or services. You'll see these ads in both print and digital versions of newspapers.

1. Why has the number of newspapers published fallen in recent years?
2. What services do newspapers provide?
3. What are subscribers?
4. How often are most newspapers published?
5. What do newspapers do to keep the cost to the reader low, but still make money?
6. What is the name of the newspaper in the town or city where you live?

## Reading Comprehension: Newspapers

Directions: Read the information about the first newspapers. Then, answer the questions.

Long ago, town criers walked through cities reading important news to the people. The earliest newspapers were probably handwritten notices posted in towns for the public to read.

The first true newspaper was a weekly paper started in Germany in 1609. It was called The Strassburg Relation. The
 Germans were pioneers in newspaper publishing. Johann Gutenberg, the man who developed movable type, was German.

One of the first English-language newspapers, The London Gazette, was first printed in England in 1665. Gazette is an old English word that means "official publication." Many newspapers today still use the word gazette in their names.

In America, several papers began during colonial days. The first successful one, The Boston News-Letter, began printing in 1704. It was very small-about the size of a sheet of notebook paper with printing on both sides.

An important date in newspaper publishing was 1833. In that year, The New York Sun became the first penny newspaper. The paper actually did cost only a penny. The penny newspapers were similar to today's papers: they printed news while it was still new, they were the first to print advertisements and to sell papers in newsstands, and they were the first to be delivered to homes.

1. How were the earliest newspapers different from today's newspapers?
2. In what year and where was the first true newspaper printed?
3. What was the name of the first successful newspaper in America?
4. Why was 1833 important in newspaper publishing?
5. List four ways penny newspapers were like the newspapers of today.

## Reading Comprehension: News Stories

Directions: Read the information about news stories. Then, draw an $\mathbf{X}$ on the line to show the correct meaning of the bold word.

Here is an example of how a news story gets published:
Let's imagine that a city bus has turned over in a ditch, injuring some of the passengers. An eyewitness might call the newspaper, or an editor might hear a report on the police scanner. The editor assigns a reporter to go to the scene. The reporter talks to the passengers, driver, and witnesses who saw the accident. She finds out what they saw and how they feel, recording their answers electronically. At the same time, a photographer is busy taking pictures.

Today, many reporters write the story on the spot and then send it back to the office via the Internet. Things moved a lot more slowly in the news world just a few decades ago!

Next, an editor reads the story, checking facts, grammar, and spelling. Meanwhile, the photographer submits his or her digital photos electronically, and a picture is chosen to represent the story.

It's now the job of other editors to build the various newspaper pages on a computer, using specialized software. Finally, the presses begin to run, and the printing process can begin.

Miles of paper are turned into thousands of printed, cut, and folded newspapers. They are counted, put into bundles, and placed in waiting trucks. The paper is also posted online, so people everywhere have access to it. No matter how people receive their news, it's only a matter of hours before they can read an account of the bus accident in their local newspaper.

1. Based on the other words in the sentence, what is the correct definition of eyewitness?
$\qquad$ a reporter a person who saw what happened a lawyer
2. How is the way that reporters send in stories different today than it was in the past?

## Reading Comprehension: Nellie Bly

Directions: Read the information about Nellie Bly. Then, answer the questions.
A hundred years ago, journalism and reporting were usually seen as a man's job. A young woman named Elizabeth Cochran changed that idea in ways that people would never forget. Nellie Bly, (Elizabeth's pen name) was curious and courageous. She did not take no for an answer, and she was intent on finding the real story. She wanted to give a voice to people who could not speak for themselves.

Investigative reporting is common today, but it was new in Bly's time. After she took a job with a newspaper
 called The World in New York, Bly accepted an assignment for an unusual story. She pretended to be mentally ill so that she would be admitted to an insane asylum. Her goal was to report on abuses going on at the asylum. Bly spent ten days working undercover as a patient. The World published Bly's story with satisfying results. The city investigated the asylum, and treatment of the mentally ill improved.

In 1889, Bly came up with an interesting idea for a story. She would travel around the world in 80 days. In 1873, writer Jules Verne had published a fictional book called Around the World in 80 Days. Bly decided to see if the trip could really be made and to write about it. It was unusual for women to travel alone, but that didn't stop Nellie Bly. She returned triumphantly to New York 72 days later. People all around the country bought copies of The World to track Bly's progress. More than a century later, Bly is still remembered for her trailblazing writing and adventurous spirit.

1. What does it mean "to give a voice to people who could not speak for themselves"?
2. Was Around the World in 80 Days a work of fiction or nonfiction? $\qquad$
3. The name of the New York newspaper Bly wrote for was $\qquad$ .
4. What was the result of Bly's story about the insane asylum?
5. Investigative reporting is no longer a common practice.

True
False

## Reading Comprehension: Samuel Clemens

Directions: Read the information about Samuel Clemens.
Samuel Langhorne Clemens was born in Florida, Missouri, in 1835. In his lifetime, he gained worldwide fame as a writer, lecturer, and humorist.

Clemens first worked for a printer when he was only 12 years old. Soon after that, he worked on his brother's newspaper.

Clemens traveled frequently and worked as a printer in New York, Philadelphia, St. Louis, and Cincinnati. On a trip to New Orleans in 1857, he learned the difficult art of steamboat piloting. Clemens loved piloting
 and later used it as a background for some of his books, including Life on the Mississippi.

A few years later, Clemens went to Nevada with his brother and tried gold mining. When this proved unsuccessful, he went back to writing for newspapers. At first, he signed his humorous pieces with the name "Josh." In 1863, he began signing them Mark Twain. The words mark twain were used by riverboat pilots to mean two fathoms ( 12 feet) deep, water deep enough for steamboats. From then on, Clemens used this now-famous pseudonym for all his writing.

As Mark Twain, he received attention from readers all over the world. His best-known works include The Adventures of Tom Sawyer and The Adventures of Huckleberry Finn. These two books about boyhood adventures remain popular with readers of all ages.
Directions: Check the correct answer.

1. Based on the other words in the sentence, what is the correct definition of pseudonym?
$\qquad$ book title
a made-up name used by an author
___ a humorous article
2. Based on the other words in the sentence, what is the correct definition of piloting?
$\qquad$ driving an airplane
steering a steamboat on a river being a train engineer
Directions: Write the answers.
3. Under what name did Samuel Clemens write his books?
4. What do the words mark twain mean?
5. Besides author, list two other jobs held by Mark Twain.
6. List two of the best-known books written by Mark Twain.

## Review

Directions: Write the answers.

1. What are two ways newspapers earn money?

$\qquad$
$\qquad$
2. What was Mark Twain's real name?
3. Explain how newspaper reporting is different today than it was in the past.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. How has social media changed the way stories are discovered and reported?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Directions: Use dates from the articles "Printing" and "Newspapers" to create a time line of the development of newspapers.

## Recognizing Details: The Coldest Continent

Directions: Read the information about Antarctica. Then, answer the questions.
Antarctica lies at the South Pole and is the coldest continent. It is without sunlight for months at a time. Even when the sun does shine, its angle is so slanted that the land receives little warmth. Temperatures often drop to 100 degrees below zero, and a fierce wind blows almost endlessly. Most of the land is covered by snow heaped thousands of feet deep. The snow is so heavy and tightly packed that it forms a great ice cap covering more than 95 percent of the continent.


Considering the conditions, it is no wonder there are no towns or cities in Antarctica. There is no permanent population at all, only small scientific research stations. Many teams of explorers and scientists have braved the freezing cold since Antarctica was sighted in 1820. Some have died in their effort, but a great deal of information has been learned about the continent.

From fossils, pieces of coal, and bone samples, we know that Antarctica was not always an ice-covered land. Scientists believe that 200 million years ago it was connected to southern Africa, South America, Australia, and India. Forests grew in warm swamps, and insects and reptiles thrived there. Today, there are animals that live in and around the waters that border the continent. In fact, the waters surrounding Antarctica contain more life than oceans in warmer areas of the world.

1. Where is Antarctica? $\qquad$
2. How much of the continent is covered by an ice cap? $\qquad$
3. When was Antarctica first sighted by explorers? $\qquad$
4. What clues indicate that Antarctica was not always an ice-covered land?

## Reading Comprehension: The Arctic Circle

Directions: Read the article about the Arctic Circle. Then, answer the questions.
On the other side of the globe from Antarctica, at the northernmost part of Earth, is another icy land. This is the Arctic Circle. It includes the North Pole itself and the northern fringes of three continents-Europe, Asia, and North America, including the state of Alaska-as well as Greenland and other islands.

The seasons are opposite at the two ends of Earth. When it is summer in Antarctica, it is winter in the Arctic Circle.
 In both places, there are very long periods of sunlight in summer and very long nights in the winter. On the poles themselves, there are six full months of sunlight and six full months of darkness each year.

Compared to Antarctica, the summers are surprisingly mild in some areas of the Arctic Circle. Much of the snow cover may melt, and temperatures often reach 50 degrees in July. Antarctica is covered by water-frozen water, of course-so nothing can grow there. Plant growth is limited in the polar regions, not only by the cold, but also by wind, lack of water, and the long winter darkness.

In the far north, willow trees grow but only become a few inches high! The annual rings, the circles within the trunk of a tree that show its age and how fast it grows, are so narrow in those trees that you need a microscope to see them.

A permanently frozen layer of soil, called permafrost, keeps roots from growing deep enough into the ground to anchor a plant. Even if a plant could survive the cold temperatures, it could not grow roots deep enough or strong enough to allow the plant to get very big.

1. What three continents have land included in the Arctic Circle?
2. Is the Arctic Circle generally warmer or colder than Antarctica?
3. What is permafrost?
4. Many tall pine trees grow in the Arctic Circle.

Yes
No

## Reading Comprehension: Undersea Harvest

Directions: Read the selection. Then, answer the questions that follow.
A group of Inuit in Arctic Canada are known for an extremely dangerous type of harvesting expedition. You may be surprised to learn that what they are looking for are mussels on the seabed floor. The reason that this is so dangerous is that the mussel hunters must go beneath the icy surface of the Arctic Sea in winter. The mussels provide a welcome relief from a diet that consists mostly of seal meat.
During extreme low tides, the level of sea ice drops enough to create
 caverns below the ice. It exposes the seabed floor-and hundreds of mussels.

The brave hunters lower themselves as much as 40 feet below the surface to gather mussels. It is dark and cold in the icy caverns. The thick layer of ice creaks eerily overhead. Without the water to support it, it isn't nearly as stable. The Inuit must work quickly. They have only about an hour before the tide starts to move back in and the water level begins to rise. Imagine how scary it would be to hear the water rushing in around you in an icy undersea cavern!

The locals all know stories of mussel hunter who didn't make it out in time. It's a dangerous expedition, but the rewards are sweet: plenty of fresh mussels to eat!

1. What group of people is known for harvesting mussels under the ice?
2. The seabed floor is only exposed at a certain time. When does this occur?
3. Why are there caverns under the ice?
4. Why is mussel gathering so risky for the Inuit?
5. What does the word expedition mean?
$\square$ harvest $\quad \square$ mussels journey

## Main Idea: The Polar Trail

Directions: Read the information about explorers to Antarctica.
A recorded sighting of Antarctica, the last continent to be discovered, was not made until the early nineteenth century. Since then, many brave explorers and adventurers have sailed south to conquer the icy land. Their achievements once gained as much world attention as those of the first astronauts.

Long before the continent was first spotted, the ancient Greeks suspected there was a continent at the bottom of the world. Over the centuries, legends of the undiscovered land spread. Some of the world's greatest seamen tried to find it, including Captain James Cook in 1772.

Cook was the first to sail all the way to the solid field of ice that surrounds Antarctica every winter. In fact, he sailed all the way around the continent but never saw it. Cook went farther south than anyone had ever gone. His record lasted 50 years.

Forty years after Cook, a new kind of seamen sailed the icy waters. They were hunters of seals and whales. Sailing through unknown waters in search of their prey, these men became explorers as well as hunters. The first person known to sight Antarctica was an American hunter, 21 -year-old Nathaniel Brown Palmer, in 1820.

Directions: Draw an $\mathbf{X}$ on the blank for the correct answer.

1. The main idea is:
$\qquad$ Antarctica was not sighted until the early nineteenth century. Many brave explorers and adventurers have sailed south to conquer the icy land.
2. The first person to sail to the ice field that surrounds Antarctica was:
$\qquad$ Nathaniel Brown Palmer. Captain James Cook.
___ Neil Armstrong.
3. The first person known to sight Antarctica was:
$\qquad$ an unknown ancient Greek.
___ Captain James Cook. __ Nathaniel Brown Palmer.
4. His profession was:
$\qquad$ hunter. ___ ship captain.
___ explorer.
5. His record for sailing the farthest south stood for:
$\qquad$ 40 years.
__ 50 years.
500 years.

## Recognizing Details: The Frozen Continent

Directions: Read the information about explorers. Then, answer the questions.
By the mid-1800s, most of the seals of Antarctica had been killed. The seal hunters no longer sailed the icy waters. The next group of explorers who took an interest in Antarctica were scientists. Of these, the man who took the most daring chances and made the most amazing discoveries was British Captain James Clark Ross.

Ross first made a name for himself sailing to the north. In 1831, he discovered the North Magnetic Pole-one of two places on Earth toward which a compass needle points. In 1840, Ross set out to find the South Magnetic
 Pole. He made many marvelous discoveries, including the Ross Sea, a great open sea beyond the ice packs that stopped other explorers, and the Ross Ice Shelf, a great floating sheet of ice bigger than all of France!

The next man to make his mark exploring Antarctica was British explorer Robert Falcon Scott. Scott set out in 1902 to find the South Pole. He and his team suffered greatly, but they were able to make it a third of the way to the pole. Back in England, Scott was a great hero. In 1910, he again attempted to become the first man to reach the South Pole. But this time, he had competition: an explorer from Norway, Roald Amundsen, was also leading a team to the South Pole.

It was a brutal race. Both teams faced many hardships, but they pressed on. Finally, on December 14, 1911, Amundsen became the first man to reach the South Pole. Scott arrived on January 17, 1912. He was bitterly disappointed at not being first. The trip back was even more horrible. None of the five men in the Scott expedition survived.

1. After the seal hunters, who were the next group of explorers interested in Antarctica?
2. What great discovery did James Ross make before ever sailing to Antarctica?
3. What were two other great discoveries made by James Ross?
4. How close did Scott and his team come to the South Pole in 1902?
5. Who was the first person to reach the South Pole? $\qquad$

## Reading Skills: Research

To learn more about the explorers of Antarctica, reference sources like encyclopedias, CD-ROMs, the Internet, and history books are excellent sources for finding more information.

Directions: Use reference sources to learn more about Captain James Cook and Captain James Clark Ross. Write an informational paragraph about each man.

1. Captain James Cook
2. Captain James Clark Ross
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. What dangers did both of these men and their teams face in their attempts to reach the South Pole?


## Reading Comprehension: Polar Bears

Directions: Read the information about polar bears. Then, answer the questions by circling Yes or No.

Some animals are able to survive the cold weather and difficult conditions of the snow and ice fields in the Arctic polar regions. One of the best known is the polar bear.

Polar bears live on the land and in the sea. They may drift hundreds of miles from land on huge sheets of floating ice. They use their great paws to paddle the ice along. Polar bears are excellent swimmers, too. They can cross great distances of open water.
 While in the water, they feed mostly on fish and seals.

On land, these huge animals, which measure 10 feet long and weigh about 1,000 pounds, can run 25 miles an hour. Surprisingly, polar bears live as plant-eaters rather than hunters while on land. Unlike many kinds of bears, polar bears do not hibernate. They are active the whole year.

Baby polar bears are born during the winter. At birth, they are pink and almost hairless. These helpless cubs weigh only two pounds-less than one-third the size of most human infants. The mother bears raise their young in dens dug in snowbanks. By the time they are 10 weeks old, polar bear cubs are about the size of puppies and have enough white fur to protect them in the open air. The mothers give their cubs swimming, hunting, and fishing lessons. By the time autumn comes, the cubs are left to survive on their own.

1. Polar bears can live on the land and the sea. ..... Yes ..... No
2. Polar bears are excellent swimmers. ..... Yes ..... No
3. Polar bears hibernate in the winter. ..... Yes ..... No
4. A newborn polar bear weighs more than a newborn human baby. Yes ..... No
5. Mother polar bears raise their babies in caves. ..... Yes ..... No
6. Father polar bears give the cubs swimming lessons. ..... Yes ..... No

## Context Clues: Seals

Directions: Read the information about seals. Use context clues to determine the meaning of the bold words. Check the correct answers.

Seals are aquatic mammals that also live on land at times. Some seals stay in the sea for weeks or months at a time, even sleeping in the water. When seals go on land, they usually choose secluded spots to avoid people and other animals.

The 31 different kinds of seals belong to a group of animals often called pinnipeds meaning "fin-footed." Their fins, or flippers, make them very good swimmers and divers. Their nostrils
 close tightly when they dive. They have been known to stay submerged for as long as a half-hour at a time!

Seals are warm-blooded animals that can adjust to various temperatures. They live in both temperate and cold climates. Besides their fur to keep them warm, seals have a thick layer of fat, called blubber, to protect them against the cold. It is harder for seals to cool themselves in hot weather than to warm themselves in cold weather. They can sometimes become so overheated that they die.

1. Based on other words in the sentence, what is the correct definition of aquatic?
$\qquad$ living on the land
$\qquad$ living on or in the sea
$\qquad$ living in large groups
2. Based on other words in the sentence, what is the correct definition of submerged?
$\qquad$ under the water
$\qquad$ on top of the water
$\qquad$ in groups
3. Based on other words in the sentence, what is the correct definition of secluded?
___ rockyprivate or hidden
$\square$ near other animals
4. Based on other words in the sentence, what is the correct definition of temperate?
$\qquad$
$\square$ measured on a thermometer __ warm

## Reading Comprehension: Walruses

Directions: Read the information about walruses. Then answer the questions.
A walrus is actually a type of seal that lives only in the Arctic Circle. It has two huge upper teeth, or tusks, which it uses to pull itself out of the water or to move over the rocks on land. It also uses its tusks to dig clams, one of its favorite foods, from the bottom of the sea. On an adult male walrus, the tusks may be three and a half feet long!

A walrus has an unusual face. Besides its long tusks, it has a big, bushy mustache made up of hundreds of movable, stiff bristles. These bristles also help the walrus push food into its mouth. Except for small
 wrinkles in the skin, a walrus has no outer ears.

Like a seal, the walrus uses its flippers to help it swim. Its front flippers serve as paddles, and while swimming, it swings the back of its huge body from side to side. A walrus looks awkward using its flippers to walk on land, but don't be fooled! A walrus can run as fast as a human.

Baby walruses are born in the early spring. They stay with their mothers until they are two years old. There is a good reason for this-they must grow little tusks, at least three or four inches long, before they can catch their own food from the bottom of the sea. Until then, they must stay close to their mothers to eat. A young walrus that is tired from swimming will climb onto its mother's back for a ride, holding onto her with its front flippers.

1. The walrus is a type of seal found only $\qquad$
2. List two ways the walrus uses its tusks.
3. A walrus cannot move quickly on land.
4. A walrus has a large, bushy mustache.
5. A baby walrus stays very close to its mother until it is two years old.
6. Baby walruses are born late in fall.

Yes
Yes

Yes
Yes

No
No

## Main Idea: Penguins

Directions: Read the information about penguins.
People are amused by the funny, duck-like waddle of penguins and by their appearance, because they seem to be wearing little tuxedos. Penguins are among the best-liked animals on Earth, but they are also a most misunderstood animal. People may have more inaccurate ideas about penguins than any other animal.

For example, many people are surprised to learn that penguins are really birds, not mammals. Penguins do not fly, but they do have feathers, and only birds have feathers. Also, like other birds, penguins build nests and their young hatch from eggs. Because of their unusual looks, though, you would never confuse them with any other bird!


Penguins are also thought of as symbols of the polar regions, but penguins do not live north of the equator, so you would not find a penguin near the North Pole. Penguins don' $\dagger$ live at the South Pole, either. Only two of the seventeen species of penguins spend all of their lives on the frozen continent of Antarctica. You would be just as likely to see a penguin living on an island in a warm climate as in a cold area.

Directions: Draw an $\mathbf{X}$ on the blank for the correct answer.

## 1. The main idea is:

$\qquad$ Penguins are among the best-liked animals on Earth.
$\qquad$ The penguin is a much misunderstood animal.
2. Penguins live
$\qquad$ only at the North Pole.
$\qquad$ only at the South Pole.
$\qquad$ only south of the equator.
3. Based on the other words in the sentence, what is the correct definition of the word species?
$\qquad$ number
___ bird ___ a distinct kind

Directions: List three ways penguins are like other birds.

## Review

Directions: Write your answers on the lines.

1. Which contains the South Pole—the Arctic or Antarctica?
2. Would you like to live in either the Arctic or Antarctica?


Why or why not?
$\qquad$
$\qquad$
3. What adaptations would people who live (even for a short time) in these areas have to make?
$\qquad$
$\qquad$
4. What characteristics are common to animals who live in the polar regions?
$\qquad$
$\qquad$
5. Name two animals that live in the polar regions.
$\qquad$
6. Write three facts you learned about one of the animals that live in the polar regions.
$\qquad$
$\qquad$
$\qquad$
7. On each of the poles, there are six months of sunlight and six months of darkness each year. How do you think this would affect you?
$\qquad$
$\qquad$
8. Write three facts you learned about explorers to the North or South Pole regions.

## Reading Comprehension: The Desert

Directions: Read the information about the desert. Then, answer the questions by circling Yes or No.

Deserts are found where there is little rainfall or where the rainfall for a whole year occurs in only a few weeks' time. Ten inches of rain may be enough for many plants to survive if the rain is spread throughout the year. If the 10 inches of rain falls during one or two months and the rest of the year is dry, those plants may not be able to survive, and a desert may form.

When people think of deserts, they may think of long stretches of sand. Sand begins as tiny pieces of rock that get smaller and smaller as wind and weather wear them down. Sand dunes, or hills of drifting sand, are formed as winds move the sand across the desert. Grain by grain, the dunes grow over the years, always shifting with the winds and changing shape. Most dunes are only a few feet tall, but they can grow to be several hundred feet high.

There is, however, much more to a desert than sand. In the deserts of the southwestern United States, cliffs and canyons were formed from thick mud that once lay beneath a sea more than 100 million years ago. Over the centuries, the water drained away. Wind, sand, rain, heat, and cold all wore away at the remaining rocks. The faces of the desert mountains are always changing-very, very slowly-as these forces of nature continue to work on the rock.

Most deserts have a surprising variety of life. There are plants, animals, and insects that have adapted to life in the desert. During the heat of the day, a visitor may see very few signs of living things, but as the air begins to cool in the evening, the desert comes to life. As the sun begins to rise again in the sky, the desert once again becomes quiet and lonely.

1. Deserts are found where there is little rainfall or where the rainfall for a whole year falls in only a few weeks.

Yes No
2. Sand begins as tiny pieces of rock that get smaller and smaller as wind and weather wear them down.

Yes
No
3. Sand dunes were formed from thick mud that once lay beneath a sea more than 100 million years ago.
4. The faces of the desert mountains can never change.

Yes
No
Yes
No

## Reading Comprehension: Desert Weather

Directions: Read the information about desert weather. Then, answer the questions.
One definition of a desert is an area that has, on average, less than 10 inches of rain a year. Many deserts have far less than that. Death Valley in California and Nevada, for example, averages fewer than 2 inches of rain each year. The driest of all deserts is the Atacoma Desert in Chile. This desert averages less than 1 inch of rainfall a year. In some parts, no rain fell for 400 years!

Some deserts have a regular rainy season each year, but usually desert rainfall is totally unpredictable. An area may have no rainfall for many years. Sometimes a passing cloud may look like it will send relief to the waiting land, but only a "ghost rain" falls. This means that the hot, dry air dries up the raindrops long before they ever reach the ground.

The temperature in the desert varies greatly. The daytime temperatures in the desert frequently top 120 degrees. In Death Valley, temperatures have been known to reach 190 degrees! In most parts of the world, moisture in the air works like a blanket to hold the heat of the day close to the earth at night. But, because it has so little moisture, the desert has no such blanket. As a result, nighttime temperatures are very chilly. Temperatures have been known to drop 50 or even 100 degrees at night in the desert.


1. On the average, how much rainfall is there in a year in a desert?
2. Where is the driest desert in the world? $\qquad$
3. What is a ghost rain? $\qquad$
4. In other parts of the world, what works as a blanket to hold the heat of the day close to the earth at night?
5. What happens to the temperature in the desert at night?

## Review

Directions: Write a three-sentence summary of each of these selections. Include the main idea in your summaries.

1. "The Desert"

$\qquad$
$\qquad$
2. "Desert Weather"
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Directions: Define these words. Then, use them in sentences of your own.
3. dunes $\qquad$
$\qquad$
4. canyon $\qquad$
$\qquad$
5. adapt $\qquad$
$\qquad$
6. average $\qquad$
$\qquad$
7. unpredictable $\qquad$

## Context Clues: Desert Plants

Directions: Read the information about desert plants. Use context clues to determine the meaning of the bold words. Check the correct answers.

Desert plants have special features, or adaptations, that allow them to survive the harsh conditions of the desert. A cactus stores water in its tissues when it rains. It then uses this supply of water during the long dry season. The tiny needles on some kinds of cacti may number in the tens of thousands. These sharp thorns protect the cactus. They also form tiny shadows in the sunlight that help keep the plant from getting too hot.

Other plants are able to live by dropping their leaves. This cuts down on the evaporation of their water supply in the hot sun. Still other plants survive as seeds, protected from the sun and heat by tough seed coats. When it rains, the seeds sprout quickly, bloom, and produce more seeds that can withstand long dry spells.

Some plants spread their roots close to Earth's surface to quickly gather water when it does rain. Other plants, such as the mesquite, have roots that grow 50 or 60 feet below the ground to reach underground water supplies.

1. Based on the other words in the sentence, what is the correct definition of survive?
$\qquad$ continue to live
$\qquad$ bloom in the desert flower
2. Based on the other words in the sentence, what is the correct definition of evaporation?
$\qquad$ water loss from heat
$\qquad$ much-needed rainfall
$\square$ boiling
3. Based on the other words in the sentence, what is the correct definition of withstand?
$\qquad$ put up with stand with another
$\qquad$ take from
4. Based on the other words in the sentence, what is the correct definition of cacti?
$\qquad$ a type of sand dune
$\qquad$ more than one cactus
$\qquad$ a caravan of camels
5. Based on the other words in the sentence, what is the correct definition of sprout?


## Recognizing Details: The Cactus Family

Directions: Read the information about cacti. Pay close attention to details. Answer the questions.

Although cacti are the best-known desert plants, they don't live only in hot, dry places. While cacti are most likely to be found in the desert areas of Mexico and the southwestern United States, they can by seen as far north as Nova Scotia, Canada. Certain types of cacti can live even in the snow!

Desert cacti are particularly good at surviving very long dry spells. Most cacti have a very long root system so they can absorb as much water as possible. Every available drop of water is taken into the cactus and held in its fleshy stem.
 A cactus stem can hold enough water to last for two years or longer.

A cactus may be best known for its spines. Although a few kinds of cacti don'† have spines, the stems of most types are covered with these sharp needles. The spines have many uses for a cactus. They keep animals from eating the cactus. They collect raindrops and dew. The spines also help keep the plant cool by forming shadows in the sun and by trapping a layer of air close to the plant. They break up the desert winds that dry out the cactus.

Cacti come in all sizes and shapes. The biggest type in North America is the saguaro. It can weigh 12,000 to 14,000 pounds and grow to be 50 feet tall. A saguaro can last several years without water, but it will grow only after summer rains. In May and June, white blossoms appear. Many kinds of birds nest in these enormous cacti: white-winged doves, woodpeckers, small owls, thrashers, and wrens all build nests in the saguaro.

1. Where are you most likely to find a cactus growing?
2. How long can most cacti survive without water?
3. What are two ways the spines help a cactus?
4. What is the biggest cactus in North America?
5. What animals live in a saguaro cactus?

## Review

Directions: Write a three-sentence summary of these selections. Refer to the reading selections for review if necessary.

1. "Desert Plants"
$\qquad$
$\qquad$
$\qquad$
2. "The Cactus Family"
$\qquad$
$\qquad$
$\qquad$
Directions: Describe the adaptations these plants have made to survive in the desert.
3. cacti $\qquad$
4. mesquite $\qquad$
5. saguaro cactus $\qquad$
Directions: Answer these questions.
6. What is the purpose of cactus spines? $\qquad$
7. Why does the mesquite have long roots? $\qquad$

$\qquad$
Directions: Define these words. Then, use them in sentences of your own.
8. evaporation $\qquad$
9. spine $\qquad$
$\qquad$

## Reading Comprehension: Lizards

Directions: Read the information about lizards. Then, answer the questions.
Lizards are reptiles, related to snakes, turtles, alligators, and crocodiles. Like other reptiles, lizards are cold-blooded. This means that their body temperature changes with that of their surroundings. However, by changing their behavior throughout the day, they can keep their temperature fairly constant.

Lizards are among the many animals that live in deserts. They usually come out of their burrows
 early in the morning. Most lizards lie in the sun to get warm before starting their daily activities. In mid-morning, they hunt for food. If it becomes too hot, lizards can raise their tails and bodies off the ground to help them cool off. At midday, they return to their burrows or crawl under rocks for several hours. Late in the day, they again lie in the sun to absorb heat before the chilly desert night falls.

Like all animals, lizards have ways of protecting themselves. Some types of lizards have developed a most unusual defense. If a hawk or other animal grabs one of these lizards by its tail, the tail will break off. The tail will continue to wiggle around to distract the attacker while the lizard runs away. A month or two later, the lizard grows a new tail.

There are about 3,000 kinds of lizards, and all of them can bite, but only two types of lizards are poisonous: the Gila monster of the southwestern United States and the Mexican bearded lizard. Both are short-legged, thick-bodied reptiles with fat tails. These lizards do not attack people and will not bite them unless they are attacked.

1. What can a lizard do if it becomes too hot? $\qquad$
$\qquad$
2. What is an unusual defense some lizards have developed to protect themselves?
3. What two types of lizards are poisonous?

## Main Idea: People in the Desert

Directions: Read the information about people in the desert. Then, answer the questions.
Long before Europeans came to live in America, Native Americans had discovered ways of living in the desert. Some of these Native Americans were hunters or belonged to wandering tribes that stayed in the desert for only short periods of time. Others learned to farm and live in villages. They made their houses of trees, clay, and brush.

The desert met all of their needs for life:
 food, water, skins for clothing, materials for tools, weapons, and shelter. For meat, the desert offered deer, birds, and rabbits for hunting. When these animals were hard to find, the Native Americans would eat mice and lizards. Many desert plants, such as the prickly pear and mesquite, provided moisture, fruit, and seeds that could be eaten.

The first Europeans in the American deserts were searching for furs and metals, like silver and gold. They explored but did not settle in the desert. The early pioneers were usually unsuccessful at living in the desert. They found the great heat and long dry periods too difficult. When they moved away, they left behind empty mining camps, houses, and sheds that slowly fell apart in the sun and wind.

1. What is the main idea of this selection?
$\qquad$ Before Europeans came to live in America, Native Americans had discovered ways of successfully living in the desert.
___ Some Native Americans were hunters or belonged to wandering tribes who stayed in the desert for only short periods of time.
2. Who were the first people to live in the deserts of North America?
3. What did the Native Americans use to make their houses in the desert?
4. What kinds of food did the Native Americans find in the desert?
5. What were the first Europeans who came to the desert looking for?

## Main Idea: Camels

Directions: Read the information about camels. Then, answer the questions.
Camels are well suited to desert life. They can cope with infrequent supplies of food and water, blazing heat during the day, low temperatures at night, and sand blown by high winds.

There are two kinds of camels: the two-humped bactrian and the one-humped dromedary. The dromedary is the larger of the two. It has coarse fur on its back that helps protect it from the sun's rays. The hair on its stomach and legs is short to prevent overheating. When camels molt in the spring, their wool can be collected in tufts from the bushes and ground.

The legs of the dromedary are much longer than those of the bactrian. Animals that live in very hot countries tend to have longer legs. This gives them a larger area of body surface from which heat can escape. Bactrian camels live in the deserts of central Asia where winter are bitterly cold, so they are not as tall as dromedaries.

Both kinds of camels have pads on their feet that keep them from sinking into the sand as they walk. A camel's long neck allows it to reach the ground to drink water and eat grass without having to bend its legs. It also can reach up to eat leaves from trees.

Camels do not store water in their humps as many people believe. The hump is for fat storage. When there is plenty of food, the camel's hump swells and feels firm. During the dry season when there is little food, the fat is used up, and the hump shrinks and becomes soft.

1. What is the main idea of this selection?
$\qquad$ Camels are well suited to desert life.
There are two kinds of camels.
2. Based on the other words in the sentence, what is the correct definition of molt?
$\qquad$ turns into a butterfly sheds its hair
$\qquad$ becomes overheated

3. What are the two kinds of camels?
4. Why don't camels sink into the sand when they walk? $\qquad$
5. What is the purpose of a camel's hump?

## Review

Directions: Write your answers in complete sentences.

1. Describe how the cold-blooded lizard regulates its body temperature.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. What is the main idea of the selection "Lizards"?
$\qquad$
$\qquad$
3. Describe how Native Americans adapted to life in the desert.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Why do you think early pioneers were unsuccessful at desert living?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
5. Describe the adaptations of camels for successful desert habitation.

## Reading Comprehension: Desert Lakes

Directions: Read the information about lakes in the desert. Then, answer the questions.
A few deserts have small permanent lakes. While they may be a welcome sight in the desert, the water in them is not fit for drinking. They are salt lakes. Rain from nearby higher land keeps these lakes supplied with water, but the lakes are blocked in with nowhere to drain. Over the years, mineral salts collect in the water and build up to a high level, making the water undrinkable.

Most desert lakes are only temporary. Occasional rains may fill them to depths
 of several feet, but in a matter of weeks or months, all the water has been dried up by the heat and sun. The dried lake beds that remain are called playas. Some playas are simply areas of sun-baked mud; others are covered with a sparkling layer of salt.

Perhaps the most unusual desert lake is in central Australia. It is called Lake Eyre. It is a huge lake-nearly 3,600 square miles in area-but it is almost totally dry most of the time. Since it was discovered in 1840, it has been filled only two times. Both times, the lake completely dried up again within a few years.

1. Why is the water in a desert lake not fit for drinking?
2. Why are the lakes in the desert salt lakes?
3. Why are most desert lakes only temporary?
4. What is a playa?
5. What is the name of the unusual desert lake in central Australia?
6. How big is this desert lake?

## Review

Directions: Write your answers in complete sentences.

1. What is a desert?

$\qquad$
2. Name a desert in the United States, and tell where it is.
$\qquad$
$\qquad$
3. What special characteristics must an animal have to survive in the desert?
$\qquad$
$\qquad$
$\qquad$
4. What special characteristics must a plant have to survive in the desert?
$\qquad$
$\qquad$
$\qquad$
5. What differences exist between animals whose habitat is the polar regions and animals whose habitat is the desert regions?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
6. Would you like to visit the desert? Why or why not?

## ENGLISH



## Nouns

A noun is a word that names a person, place, or thing.

## Examples:

person - friend
place - home
thing - desk


Nouns are used many ways in sentences. They can be the subjects of sentences.
Example: Noun as subject: Your high-topped sneakers look great with that outfit.
Nouns can be direct objects of a sentence. The direct object follows the verb and completes its meaning. It answers the question who or what.

Example: Noun as direct object: Shelly's family bought a new car.
Nouns can be indirect objects. An indirect object comes between the verb and the direct object and tells to whom or for whom something was done.

Example: Noun as indirect object: She gave Vijay a big hug.
Directions: Underline all the nouns. Write $\mathbf{S}$ above the noun if it is a subject, DO if it is a direct object, or IO if it is an indirect object. The first one has been done for you.

## $S$ DO <br> 1. Do alligators eat people?

2. James hit a home run, and our team won the game.
3. The famous actor gave Marissa his autograph.
4. Eric loaned Keith his bicycle.
5. The kindergarten children painted cute pictures.
6. Robin sold David a magazine subscription.
7. The neighbors planned a going-away party and bought a gift.
8. The party and gift surprised Kurt and his family.
9. My scout leader told our group a funny joke.
10. Catalina made her little sister a clown costume.

## Nouns

Directions: Write 10 nouns for each category.

People

1. $\longrightarrow$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$ 10.

Places

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
$\qquad$

Things


## Proper and Common Nouns

Common nouns name nonspecific people, places, or things.
Examples: man, fortress, dog
Proper nouns name specific people, places, or things.
Examples: Washington, D.C., Thomas Jefferson, Red Sea


Directions: Underline the proper nouns, and circle the common nouns in each sentence.

1. My friend, Josephine, loves to go to the docks to watch the boats sail into the harbor.
2. Josephine is especially interested in the boat named Maiden Voyage.
3. This boat is painted red with yellow stripes and has several large masts.
4. Its sails are white and billow in the wind.
5. At Misty Harbor, many boats are always sailing in and out.
6. The crews on the boats rush from bow to stern working diligently to keep the sailboats moving.
7. Josephine has been invited aboard Maiden Voyage by its captain.
8. Captain Ferdinand knew of her interest in sailboats, so he offered a tour.
9. Josephine was amazed at the gear aboard the boat and the skills of the crew.
10. It is Josephine's dream to sail the Atlantic Ocean on a boat similar to Maiden Voyage.
11. Her mother is not sure about this dangerous dream and urges Josephine to consider safer dreams.
12. Josephine thinks of early explorers like Christopher Columbus, Amerigo Vespucci, and Leif Ericson.
13. She thinks these men must have been brave to set out into the unknown waters of the world.
14. Their boats were often small and provided little protection from major ocean storms.
15. Josephine believes that if early explorers could challenge the rough ocean waters, she can, too.

## Abstract and Concrete Nouns

Concrete nouns name something that can be touched or seen.
Abstract nouns name an idea, a thought, or a feeling that cannot be touched or seen.

## Examples:

concrete nouns: house, puppy, chair abstract nouns: love, happiness, fear

Directions: Write concrete or abstract in the blank after each noun.


1. loyalty $\qquad$
2. light bulb $\qquad$
3. quarter $\qquad$
4. hope $\qquad$
5. satellite $\qquad$
6. ability $\qquad$
7. patio $\qquad$ 14. computer $\qquad$

Directions: Write eight nouns for each category.

| Concrete | Abstract |
| :---: | :---: |
| 1. | 1. |
| 2. | $2 .$ |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |
| 7. | 7. |
| 8. | 8. |

## Verbs

A verb tells what something does or that something exists.

## Examples:

Tim has shared his apples with us.
Those apples were delicious.
I hope Tim is bringing more apples tomorrow.
Tim picked the apples himself.
Directions: Underline the verbs.

1. Gene moved here from Philadelphia.
2. Now, he is living in a house on my street.
3. His house is three houses away from mine.
4. I have lived in this house all my life.
5. I hope Gene will like this town.
6. I am helping Gene with his room.
7. He has a lot of stuff!
8. We are painting his walls green.
9. He picked the color himself.
10. His parents are glad we are helping out.


Directions: Write verbs to complete these sentences.
11. We $\qquad$ some paintbrushes.
12. Gene already $\qquad$ the paint.
13. $\qquad$ my old clothes.
14. There $\qquad$ no furniture in his room right now.
15. It $\qquad$ several hours to paint his whole room.

## Verbs

A verb is the action word in a sentence. It tells what the subject does (build, laugh, express, fasten) or that it exists (is, are, was, were).

Examples: Randy raked the leaves into a pile.
I was late to school today.
Directions: In the following sentences, write verbs that make sense.

1. The quarterback $\qquad$ the ball to the receiver.
2. My mother $\qquad$ some soup yesterday.
3. John $\qquad$ newspapers to make extra money.
4. The teacher $\qquad$ the instructions on the board.
5. Last summer, our family $\qquad$ a trip to Florida to visit relatives.

Sometimes, a verb can be two or more words. Verbs used to support other verbs are called helping verbs.

Examples: We were listening to music in my room.
Chris has been studying for over 2 hours.
Directions: In the following sentences, write helping verbs along with the correct form of the given verbs. The first one has been done for you.

1. Michelle (write) _is writing__ a letter to her grandmother right now.
2. My brother (have) $\qquad$ trouble with his math homework.
3. When we arrived, the movie (start) $\qquad$ already.
4. My aunt (live) $\qquad$ in the same house for 30 years.
5. Our football team (go) $\qquad$ to win the national championship this year.
6. My sister (talk) $\qquad$ on the phone all afternoon!
7. I couldn't sleep last night because the wind (blow) $\qquad$ so hard.
8. Last week, Owen was sick, but now he (feel) $\qquad$ much better.
9. Tomorrow, our class (have) $\qquad$ a bake sale.
10. Mr. Rivera (collect) $\qquad$ stamps for 20 years.

## Verb Tenses

Verbs have different forms to show whether something already happened, is happening right now, or will happen.

## Examples:

## Present tense: | walk

Past tense: | walked
Future tense: | will walk
Directions: Write PAST if the verb is past tense, PRES for present tense, or FUT for future tense. The first one has been done for you.

## PRES

1. My sister Sara works at the grocery store.
$\qquad$ 2. Last year, she worked in an office.
$\qquad$ 3. Sara is going to college, too.
$\qquad$ 4. She will be a dentist some day.
$\qquad$ 5. She says studying is difficult.
$\qquad$ 6. Sara studied pretty hard in high school, too.
$\qquad$ 7. I will be ready for college in a few years.

2. Last night, I read my history book for two hours.

Directions: Complete these sentences using verbs in the tenses listed. The first one has been done for you.

| 9. take: future tense | My friends and I will take a trip. |
| :---: | :---: |
| 10. talk: past tense | We ___ for a long time about where to go. |
| 11. want: present tense | Brianna ___ to go to the lake. |
| 12. want: past tense | Jake ___ to go with us. |
| 13. say: past tense | His parents __ no. |
| 14. ride: future tense | We __ our bikes. |
| 15. pack: past tense | Dante and Jared already ___ lunches for us. |

## Verb Tenses

The past tense of many verbs is formed by adding ed.

## Examples:

remember + ed = remembered
climb + ed = climbed
If a verb ends in $\mathbf{e}$, drop the $\mathbf{e}$ before adding ed.

## Examples:

| Present | Past |
| :--- | :--- |
| phone | phoned |
| arrive | arrived |

If a verb ends in $\mathbf{y}$, change the $\mathbf{y}$ to $\mathbf{i}$ before adding ed.

## Examples:

| Present | Past |
| :--- | :--- |
| carry | carried |
| try | tried |



If a verb ends in a short vowel followed by a single consonant, double the final consonant.

## Examples:

| Present | Past |
| :--- | :--- |
| trip | tripped |
| pop | popped |

Directions: Circle the misspelled verb in each sentence, and write it correctly in the blank.

1. They stopped at our house and then hurryed home. $\qquad$
2. I scrubed and mopped the floor. $\qquad$
3. The coach nameed the five starting players. $\qquad$
4. He popped the potatoes into the oil and fryed them. $\qquad$
5. I accidentally droped my papers on the floor. $\qquad$
6. I had hopeed you could go climbing with me. $\qquad$
7. He triped on the rug. $\qquad$
8. The baby cryed and screamed all night. $\qquad$
9. I moped the mess up after the glass dropped on the floor. $\qquad$
10. First, she frowned, and then she smileed.

## Writing: Verb Forms

Present-tense verbs tell what is happening right now. To form present-tense verbs, use the "plain" verbs or use is or are before the verb and add ing to the verb.

## Examples: We eat. We are eating. <br> He serves. He is serving.

Directions: Complete each sentence with the correct verb form, telling what is happening right now. Read carefully, as some sentences already have is or are.

Examples: Scott is (loan) loaning Jenny his math book. Jenny (study) is studying for a big math test.

1. The court is (release) $\qquad$ the prisoner early.
2. Jonah and Jill (write) $\qquad$ their notes in code.
3. Are you (vote) $\qquad$ for Baxter?

4. The girls are (coax) $\qquad$ the dog into the bathtub.
5. The leaves (begin) $\qquad$ to fall from the trees.
6. My little brother (stay) $\qquad$ at his friend's house tonight.
7. Is she (hide) $\qquad$ behind the screen?

To change a verb to the past tense, or tell what already happened, add ed, or use was or were and add ing to the verb.

## Example: | watched. | was watching.

Directions: Complete each sentence with the correct verb form. This time, tell what already happened.

Examples: We (walk) walked there yesterday.
They were (talk) talking.

1. The government was (decrease) $\qquad$ our taxes.
2. Was anyone (cheat) $\qquad$ in this game?
3. We were (try) $\qquad$ to set goals for the project.

## Writing: Future-Tense Verbs

Future-tense verbs tell about things that will happen in the future. To form future-tense verbs, use will before the verb.

Example: Tomorrow, I will walk to school.
When you use will, you may also have to add a helping verb and the ending ing.

Example: Tomorrow, I will be walking to school.


Directions: Imagine what the world will be like 100 years from now. Maybe you think robots will be doing our work for us, or that people will be living on the moon. What will our houses look like? What will school be like? Write a paragraph describing what you imagine. Be sure to use future-tense verbs.

## Principal Parts of Verbs

Verbs have three principal parts. They are present, past, and past participle.

Form the past tense of regular verbs by adding ed to the present tense.

Form the past participle by using the past tense verb with a helping verb: has, have, or had.

Directions: Write the correct form of each verb. The first one has been done for you.


Past Participle
has/have/had closed
$\qquad$
prepared
$\qquad$ has/have/had provided
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
has/have/had formed
$\qquad$
14. travel

## Irregular Verbs

Irregular verbs change completely in the past tense. Unlike regular verbs, the past tense of irregular verbs is not formed by adding ed.

## Examples:

Chung eats the grapes.
Chung ate them yesterday.
Chung has eaten them for weeks.


| Present Tense | Past Tense <br> begin <br> speak | Past Participle <br> drink |
| :--- | :--- | :--- |
| know | has/have/had begun |  |
| eat | drank | has/have/had spoken |
| wear | knew | has/have/had drunk |
|  | ate | has/have/had known |
| wore | has/have/had eaten |  |
|  | has/have/had worn |  |

Directions: Rewrite these sentences once using the past tense and again using the past participle of each verb.

1. Todd begins football practice this week.
2. She wears her hair in braids.
$\qquad$
$\qquad$
3. I drink two glasses of milk.
$\qquad$
4. The man is speaking to us.
$\qquad$
$\qquad$
5. The dogs are eating.

## Irregular Verbs

The past participle form of an irregular verb needs a helping verb.

| Examples: |  |  |
| :--- | :--- | :--- |
| Present  <br> begin Past | Past Participle |  |
| drive | began | has/have/had begun |
| drove | has/have/had driven |  |

Directions: Write the past and past participle form of these irregular verbs. Use a dictionary if you need help. Present begin drive
drove has/have/had driven

Past Participle
$\qquad$
$\qquad$
$\qquad$
4. dream
5. tear
6. forget
7. lead
8. stand
9. sting
10. freeze
11. grow
12. Iose
13. run
14. meet
15. sit
16. do

## Be as a Helping Verb

A helping verb tells when the action of a sentence takes place. The helping verb be has several forms: am, is, are, was, were, and will. These helping verbs can be used in all three tenses.

## Examples:

Past tense: Kenji was talking. We were eating.
Present tense: I am coming. Simon is walking. They are singing.
Future tense: I will work. The puppies will eat.
In the present and past tense, many verbs can be written with or without the helping verb be. When the verb is written with a form of be, add ing. Was and is are used with singular subjects. Were and are are used with plural subjects.

## Examples:

Present tense: Angela sings. Angela is singing. The children sing. They are singing.
Past tense: | studied. I was studying. They studied. They were studying.
The helping verb will is always needed for the future tense, but the ing ending is not used with will. Will is both singular and plural.

## Examples:

Future tense: | will eat. We will watch.
Directions: Underline the helping verbs.

1. Brian is helping me with this project.
2. We are working together on it.
3. Tess was painting the background yesterday.

4. Matt and Malik were cleaning up.
5. Tomorrow, we will present our project to the class.

Directions: Rewrite the verbs using a helping verb. The first one has been done for you.
6. Our neighborhood plans a garage sale.
7. The sale starts tomorrow.
8. My brother Doug and I think about things we sell.
9. My grandfather cleans out the garage.
10. Doug and I help him.

## Be as a Linking Verb

A linking verb links a noun or adjective in the predicate to the subject. Forms of the verb be are the most common linking verbs. Linking verbs can be used in all three tenses.

## Examples:

Present: My father is a salesman.
Past: The store was very busy last night.
Future: Tomorrow will be my birthday.
In the first sentence, is links the subject (father) with a noun (salesman). In the second sentence, was links the subject (store) with an adjective (busy). In the third sentence, will be links the subject (tomorrow) with a noun (birthday).

Directions: Circle the linking verbs. Underline the two words that are linked by the verb. The first one has been done for you.

1. Columbus (is) the capital of Ohio.
2. By bedtime, Nicole was bored.
3. Andy will be the captain of our team.
4. Tuesday is the first day of the month.
5. I hate to say this, but we are lost.
6. Ask him if the water is cold.
7. By the time I finished my paper, it was late.
8. Spaghetti is my favorite dinner.
9. The children were afraid of the big truck.
10. Aliyah will be a good president of our class.
11. These lessons are helpful.

12. Was that report due today?

## Be as a Linking or Helping Verb

Directions: Write $\mathbf{H}$ if the form of be is used as a helping verb or $\mathbf{L}$ if it is used as a linking verb.
$\qquad$ 1. Bella was watching for the mail.
$\qquad$ 2. The mail was late, as usual.
$\qquad$ 3. Her friends were calling her to come to the park.
$\qquad$ 4. "We will be missed by everyone at the park," they said.
$\qquad$ 5. Still, Bella was hopeful as she waited.
$\qquad$ 6. She knew her brother was sending her a letter.
7. He was a soldier in the army.
8. He was homesick for his family, so he wrote every day.


Directions: Write two sentences using a form of be as a helping verb.
9. $\qquad$
$\qquad$
10. $\qquad$
$\qquad$

Directions: Write two sentences using a form of be as a linking verb.
11. $\qquad$
$\qquad$
12. $\qquad$

## Transitive and Intransitive Verbs

An intransitive verb can stand alone in the predicate because its meaning is complete. In the examples below, notice that each short sentence is a complete thought.

Examples: Intransitive verbs: The tree grows. The mouse squeaked. The deer will run.
A transitive verb needs a direct object to complete its meaning. The meaning of a sentence with a transitive verb is not complete without a direct object.

Examples: Transitive verbs: The mouse wants seeds. The deer saw the hunter.
The tree will lose its leaves.
The direct object seeds tells what the mouse wants. Leaves tells what the tree will lose and hunter tells what the deer saw.

Both transitive and intransitive verbs can be in the past, present, or future tense.
Directions: Underline the verb in each sentence. Write I if the sentence has an intransitive verb or $\mathbf{T}$ if it has a transitive verb.
$\qquad$ 1. The snake slid quietly along the ground.
$\qquad$ 2. The snake scared a rabbit.
$\qquad$ 3. The rabbit hopped quickly back to its hole.
$\qquad$ 4. Safe from the snake, the rabbit shivered with fear.
$\qquad$ 5. In the meantime, the snake caught a frog.
$\qquad$ 6. The frog was watching flies and didn't see the snake.

Directions: Complete these sentences with intransitive verbs.

7. Our friends $\qquad$
8. The movie $\qquad$
Directions: Complete these sentences with transitive verbs and direct objects.
9. My family $\qquad$
10. The lightning $\qquad$

## Subjects and Predicates

The subject tells who or what a sentence is about. The predicate tells what the subject does, did, or is doing. All complete sentences must have a subject and a predicate.

## Examples:

Subject
Hamsters
Pets

## Predicate

are common pets.
need special care.

Directions: Circle the subjects, and underline the predicates.

1. Many children keep hamsters as pets.
2. Mice are good pets, too.
3. Hamsters collect food in their cheeks.
4. My sister sneezes around furry animals.
5. My brother wants a dog instead of a hamster.

Directions: Write subjects to complete these sentences.
6. $\qquad$ has two pet hamsters.
7. $\qquad$ got a new pet last week.
8. $\qquad$ keeps forgetting to feed his goldfish.


Directions: Write predicates to complete these sentences.
9. Baby hamsters $\qquad$ .
10. Pet mice $\qquad$ .
11. 1 $\qquad$ .

Directions: Write $\mathbf{S}$ if the group of words is a sentence or NS if the group of words is not a sentence.
12. $\qquad$ A new cage for our hamster.
13. $\qquad$ Picked the cutest one.
14. $\qquad$ We started out with two.
15. $\qquad$ Liking every one in the store.

## Which Noun Is the Subject?

A noun is a word that names a person, place, or thing.
Examples: Andy, Mrs. Henderson, doctor, child, house, shirt, dog, freedom, country
Often, a noun is the subject of a sentence. The subject tells who or what the sentence is about. In this sentence, the subject is Sara: Sara drank some punch. A sentence can have several nouns, but they are not all subjects.

Directions: Underline each noun in the sentences below. Then, circle the noun that is the subject of the sentence.

Example: Benny caught a huge fish in a small net.

1. Anna bragged about her big brother.
2. The car has a dent in the fender.
3. Our school won the city spirit award.
4. The cook scrubbed the pots and pans.
5. The quarter flipped onto the floor.
6. My sister rinsed her hair in the sink.
7. Our neighbor has 12 pets.
8. The cross country team ran 5 miles at practice.
9. Syd walked to the store on the corner.

10. A farmer stocks this pond with fish.

Directions: Each sentence below has two subjects. Underline all the nouns, as you did above. Then, circle both subjects.

Example: Joe and Peter walked to school.

1. Apples and peaches grow in different seasons.
2. The chair and table matched the other furniture.

## Which Noun Is the Subject?

Usually, the noun that is the subject will come at the beginning of the sentence.
Examples: The truck turned quickly around the corner. Kevin stayed home from school yesterday.

Sometimes, other words will come before the subject. When this happens, remember to look for who or what the sentence is about.

Example: After school, Katie usually walks to the library. The sentence is about Katie, not school.


Directions: In the sentences below, circle the nouns that are subjects. Some sentences have more than one subject, and they will not always be at the beginning of the sentence.

1. Mark and I helped the teacher clean the classroom.
2. In the morning, my mother cooks breakfast for the whole family.
3. To finish the project, Keiko had to stay up very late last night.
4. After the storm, power lines were down all over the city.
5. Oranges and grapefruits grow very well in Florida.
6. During the summer, squirrels work hard to gather nuts for the winter.
7. While skiing last weekend, my neighbor fell and broke his leg.
8. Pictures and posters cover all the walls of our classroom.
9. To save gas, my father takes the bus to work instead of driving.
10. In my opinion, dogs and cats make the best pets.

## Subjects and Verbs

Directions: Underline the subject and verb in each sentence below. Write $\mathbf{S}$ over the subject and $\mathbf{V}$ over the verb. If the verb is two words, mark them both.

## S V V

Examples: Dennis was drinking some punch.
The punch was too sweet.

1. Hayley talks about her dog all the time.
2. Mrs. Thomas scrubbed the dirt off her car.
3. Then, her son rinsed off the soap.
4. The teacher was flipping through the cards.
5. Sophia's rabbit was hungry and thirsty.
6. Your science report lacks a little detail.
7. Chris is stocking the shelves with cans of soup.
8. The accident caused a huge dent in our car.
 Just as sentences can have two subjects, they can also have two verbs. Example: Gabriela and Amie $\underline{\mathrm{Sed}}$ the dog and gave him clean water.

Directions: Underline all the subjects and verbs in these sentences. Write $\mathbf{S}$ over the subjects and $\mathbf{V}$ over the verbs.

1. Mom and Dad scrubbed and rinsed the basement floor.
2. The men came and stocked the lake with fish.
3. Someone broke the window and ran away.
4. Carrie punched a hole in the paper and threaded yarn through the hole.
5. Julie and Ahmad turned their bikes around and went home.

## Writing: Subjects and Verbs

Directions: Make each group of words below into a sentence by adding a subject, a verb, or a subject and a verb. Then, write $\mathbf{S}$ over each subject and $\mathbf{V}$ over each verb.

Example: the dishes in the sink


The dishes in the sink were dirty.

1. a leash for your pet

2. dented the table
3. a bowl of punch for the party
$\qquad$
4. rinsed the soap out
5. a lack of chairs
6. bragging about his sister
7. the cans on the shelf
8. with a flip of the wrist

## Writing: Subjects and Verbs

Directions: Decide which words in the box are subjects (nouns) and which are verbs. Write each word under the correct heading. Then, match each subject with a verb to make a sentence. Use each subject and verb only once. The first one has been done for you.

| dog | girfls | batked | barked | honked |
| :--- | :--- | :--- | :--- | :--- |
| flew | car | played | neighbor | teacher |
| wrote | mowed | Marcus | birds |  |

## Subjects

girls

Verbs
walked
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

1. The tired girls walked slowly home from school.
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$

## Complete Sentences

A sentence that does not contain both a subject and a predicate is called a fragment.
Directions: Write $\mathbf{C}$ if the sentence is complete or $\mathbf{F}$ if it is a fragment.

1. $\qquad$ My mother and I hope to go to the mall this afternoon.
2. $\qquad$ To get shoes.
3. $\qquad$ We both need a new pair of tennis shoes.
4. $\qquad$ Maybe blue and white.
5. $\qquad$ Mom wants a pair of white shoes.
6. $\qquad$ That seems rather boring to me.
7. $\qquad$ There are many shoe stores in the mall.
8. $\qquad$ Sure to be a large selection.
9. $\qquad$ Tennis shoes are very expensive.
10. $\qquad$ I wore my last pair almost every day.


Directions: Write the missing subject or predicate for these sentences.
11. $\qquad$ decided to go for hamburgers.
12. We $\qquad$ .
13. My parents $\qquad$ .
14. One day soon, I $\qquad$ .
15. My favorite subject in school $\qquad$ .
16. $\qquad$ went fishing on Sunday.

## Direct Objects

A direct object is a word or words that follow a transitive verb and complete its meaning. It answers the question whom or what. Direct objects are always nouns or pronouns.

## Examples:

We built a doghouse. Doghouse is the direct object. It tells what we built. I called Elena. Elena is the direct object. It tells whom I called.

Directions: Underline the direct objects.

1. Maggy drew a picture of the doghouse.
2. Then, we bought some wood at the store.
3. Erin measured each board.
4. Who will saw the wood into boards?
5. Thad hammered nails into the boards.
6. He accidentally hit his thumb with the hammer.
7. Kirsten found some paint in the basement.
8. Should we paint the roof?
9. Will you write Sparky's name above the door?
10. Spell his name correctly.


Directions: Write direct objects to complete these sentences.
11. Will Sparky like $\qquad$ ?
12. When we were finished, we put away $\qquad$ .
13. We washed out $\qquad$ .
14. We threw away $\qquad$ .
15. Then, to celebrate, we ate $\qquad$ .

## Indirect Objects

An indirect object is a word or words that come between the verb and the direct object. An indirect object tells to whom or for whom something has been done. Indirect objects are always nouns or pronouns.

## Examples:

She cooked me a great dinner. Me is the indirect object. It tells for whom something was cooked.
Give the photographer a smile. Photographer is the indirect object. It tells to whom the smile should be given.

Directions: Circle the indirect objects. Underline the direct objects.

1. Grace showed me her drawing.
2. The committee had given her an award for it.
3. The principal offered Grace a special place to put her drawing.
4. While babysitting, I read Xavier a story.
5. He told me the end of the story.
6. Then, I fixed him some hot chocolate.
7. Xavier gave me a funny look.
8. Why didn't his mother tell me?
9. Hot chocolate gives Xavier a rash.
10. Will his mom still pay me for watching him?


Directions: Write indirect objects to complete these sentences.
11. I will write $\qquad$ a letter.
12. I'll give $\qquad$ part of my lunch.
13. Show $\qquad$ your model.
14. Did you send $\qquad$ a card?
15. Don't tell $\qquad$ my secret.

## Direct and Indirect Objects

Directions: Underline the direct objects. Circle the indirect objects.

1. Please give him a note card.
2. My father told me a secret.
3. I carefully examined the dinosaur bones.
4. Joseph decorated the banquet hall for the wedding.
5. Every night, I telephone my grandmother.
6. The head of the company offered my father a new position.
7. Too much pizza can give you a stomachache.
8. Will you draw me a picture?
9. This new computer gives me a headache!
10. Thomas discovered a new entrance to the cave.
11. He showed me the rare penny.
12. While watching television, I wrote Maria a letter.
13. Mrs. Fetters will pay me ten dollars for shoveling her sidewalk this winter.
14. The teacher handed her class a surprise quiz.
15. I like to drink iced tea on summer days.
16. Mom bought Linh new school supplies for kindergarten.
17. I had to pay the library a fine for overdue books.
18. My family enjoys playing football.
19. Each night my mom reads me one chapter of a novel.
20. The teacher gave us our report cards.


## Prepositions

A preposition is a word that comes before a noun or pronoun and shows the relationship of that noun or pronoun to other words in the sentence.

The object of a preposition is a noun or pronoun that follows a preposition and completes its meaning. A prepositional phrase includes a preposition and the object(s) of the preposition.

## Examples:

The girl with red hair spoke first.
With is the preposition.
Hair is the object of the preposition.
With red hair is a prepositional phrase.


In addition to being subjects, direct objects, and indirect objects, nouns and pronouns can also be objects of prepositions.

## Prepositions

| across | behind | from | near | over | to | on |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| by | through | in | around | off | with | of |
| after | before | for | between | beyond | at | into |

Directions: Underline the prepositional phrases in these sentences. Circle the prepositions. The first sentence has been done for you.

1. The name of our street is Redsail Court.
2. We have lived in our house for three years.
3. In our family, we eat a lot of hamburgers.
4. We like hamburgers on toasted buns with mustard.
5. Sometimes we eat in the living room in front of the TV.
6. In the summer, we have picnics in the backyard.
7. The ants crawl into our food and into our clothes.
8. Behind our house is a park with swings.

9. Kids from the neighborhood walk through our yard to the park.
10. Sometimes they cut across Mom's garden and stomp on her beans.
11. Mom says we need a tall fence without a gate.
12. With a fence around our yard, we could get a dog!

## Pronouns

A pronoun is a word used in place of a noun. Instead of repeating a noun again and again, use a pronoun.

| Examples: I | you | he | she | them | us |
| ---: | :--- | :--- | :--- | :--- | :--- |
| me | your | him | her | they | it |
| my | our | his | we | their | its |

Each pronoun takes the place of a certain noun. If the noun is singular, the pronoun should be singular. If the noun is plural, the pronoun should be plural.

## Examples: John told his parents he would be late. <br> The girls said they would ride their bikes.

Directions: In the sentences below, draw an arrow from each pronoun to the noun it replaces.
Example: Addy needs the salt. Please pass it to her.

1. The workers had faith they would finish the house in time.
2. Jana fell and scraped her knees. She put bandages on them.
3. The teacher told the students he wanted to see their papers.


Directions: Cross out some nouns and write pronouns to replace them.

## his

Example: Dan needed a book for Dan's book report.

1. Brian doesn' $\dagger$ care about the style of Brian's clothes.
2. Omar dyed Omar's jeans to make the jeans dark blue.
3. Faith said Faith was tired of sharing a bedroom with Faith's two sisters. Faith wanted a room of Faith's own.
4. Bathe babies carefully so the soap doesn't get in the babies' eyes and make the babies cry.
5. When the children held up the children's pictures, we could see the pride in the children's eyes.

## Singular and Plural Pronouns

Directions: Rewrite the sentences so the pronouns match the nouns they replace in gender and number. Change the verb form if necessary. The first one has been done for you.

1. Canada geese are the best-known geese in North America. It was here when the first settlers came from Europe.

## Canada geese are the best-known geese in North America. They were here when the first settlers came from Europe.

2. A Canada goose has a white patch from their chin to a spot behind their eyes.
$\qquad$
3. Canada geese can harm farmland when it grazes in fields.
$\qquad$
$\qquad$
4. Geese have favorite fields where it likes to stop and eat.
$\qquad$
$\qquad$
5. While most of the flock eats, some geese stand guard. He warns if there is any danger.
$\qquad$
$\qquad$
6. Each guard gets their turn to eat, too.
$\qquad$
$\qquad$
7. Female geese usually lay five or six eggs, but she may lay as many as eleven.
$\qquad$
$\qquad$
8. While the female goose sits on the eggs, the male goose guards their mate.

## Possessive Pronouns

A possessive pronoun shows ownership. A possessive pronoun can be used with the name of what is owned or by itself.

## Examples:

This is $\mathbf{m y}$ book. The book is mine.
This is your sandwich. It is yours.
This is our room. The room is ours.
The possessive pronouns are my, your, our, his, her, their, its, mine, yours, ours, hers, and theirs.


Possessive pronouns do not have apostrophes.
Directions: Complete the sentences with the correct possessive pronouns.

1. I entered $\qquad$ picture in the contest. That farm scene is $\qquad$ -
2. Shelby entered $\qquad$ picture, too. Do you see $\qquad$ ?
3. Hal didn't finish $\qquad$ drawing. He left $\qquad$ at home.
4. Did you enter $\qquad$ clay pot? That looks like $\qquad$ .
5. One picture has fallen off $\qquad$ stand.
6. Brian and Kendell worked together on a chalk drawing. That sketch by the doorway is $\qquad$ -
7. The judges have made $\qquad$ choices.
8. We both won! They picked both of $\qquad$ !
9. Here come the judges with our ribbons in $\qquad$ hands.
10. Your ribbon is the same as $\qquad$ .

## Writing: Possessive Pronouns

A possessive pronoun shows ownership. Instead of writing "That is Jill's book," write "That is her book" or "That is hers." Instead of "I lost my pencil," write "I lost mine." Use possessive pronouns to name what is owned or possessed.

Examples: $\begin{array}{cl}\text { my (book) } & \text { our (car) } \\ \text { her (hair) } & \text { their (group) }\end{array} \begin{aligned} & \text { your (hat) } \\ & \text { its (team) }\end{aligned}$ his (leg)
Use mine, ours, yours, his, hers, and theirs when you do not name what is possessed. Notice that possessive pronouns don't use apostrophes.

Directions: Complete these sentences with the correct possessive pronoun.
Example: This book belongs to Jon. It is $\qquad$ .

1. I brought my lunch. Did you bring $\qquad$ ?
2. I can't do my homework. I wonder if Audrey figured out $\qquad$ .
3. Deepak saved his pretzels, but I ate $\qquad$ .
4. Our team finished our project, but the other team didn't finish $\qquad$ .
5. They already have their assignment. When will we get $\qquad$ ?

It's easy to confuse the possessive pronoun its with the contraction for it is, which is spelled $\mathbf{i t}$ 's. The apostrophe in $\mathbf{i t}$ 's shows that the $\mathbf{i}$ in is has been left out.

Directions: Write its or it's in each sentence below.
Examples: The book has lost its cover. It's going to rain soon.

1. $\qquad$ nearly time to go.
2. The horse hurt $\qquad$ leg.
3. Every nation has $\qquad$ share of problems.
4. What is $\qquad$ name?
5. I think $\qquad$ too warm to snow.
6. The teacher said $\qquad$ up to us.

## Indefinite Pronouns

Indefinite pronouns often end with body, one, or thing.

## Examples:

Everybody is going to be there.
No one wants to miss it.
Indefinite pronouns do not change form when used as subjects or objects. They are always singular.

## Example:

Incorrect: Everyone must bring their own lunches.
Correct: All students must bring their own lunches. Everyone must bring his or her own lunch. Everyone must bring a lunch.


Directions: Write twelve indefinite pronouns by matching a word from column A with a word from column B.


1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$

7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$

Directions: Write all the indefinite pronouns that would make sense in the sentence below.
$\qquad$ can come.
13. $\qquad$
Directions: Rewrite this sentence correctly.
14. Everybody has their books.

## Interrogative and Relative Pronouns

An interrogative pronoun is used when asking a question. The interrogative pronouns are who, what, and which. Use who when referring to people. Use what when referring to things. Which can be used to refer to people or things.

Directions: Circle the interrogative pronouns. Write whether the pronoun refers to people or things.

1. Who brought this salad for the picnic?

2. Which car will we drive to the movies?
3. Which girl asked the question?
4. What time is it?
5. What will we do with the leftover food?
6. Who is going to the swim meet?

Relative pronouns refer to the noun or pronoun that comes before them. The noun or pronoun to which it refers is called the antecedent. The relative pronouns are who, whom, which, and that. Who and whom refer to people. Which refers to things or animals. That can refer to people, animals, or things.

Directions: Circle the relative pronouns, and underline the antecedents.

1. My dog, which is very well-behaved, never barks.
2. The story was about a girl who wanted a horse of her own.
3. The bookcase, which was full, toppled over during the night.
4. The man to whom I spoke gave me complicated directions.
5. The book that I wanted had already been checked out of the library.

## Gender and Number of Pronouns

Pronouns that identify males are masculine. The masculine pronouns are he, his, and him. Pronouns that identify females are feminine. The feminine pronouns are she, her, and hers. Pronouns that identify something as neither male nor female are gender-neutral. The gender-neutral pronouns are it and its.

The plural pronouns they and them are used to replace masculine, feminine, or gender-neutral nouns.

Examples: Noun
boot
man
travelers

Pronoun
it
he
they

Noun woman John's dog's

Pronoun she his its


Directions: List four nouns that each pronoun could replace in a sentence. The first one has been done for you.

1. she $\qquad$ doctor $\qquad$
girl
friend
2. he
3. it
4. they $\qquad$
$\qquad$
$\qquad$
$\qquad$
5. hers $\qquad$
6. its $\qquad$
$\qquad$
$\qquad$
Singular pronouns take the place of singular nouns. Plural pronouns take the place of plural nouns. The singular pronouns are I, me, mine, he, she, it, its, hers, his, him, her, you, and yours. The plural pronouns are we, you, yours, they, theirs, ours, them, and us.

Directions: Write five sentences. Include a singular and a plural pronoun in each sentence.

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$

## Writing: Pronouns

Sometimes, matching nouns and pronouns can be difficult.
Example: A teacher should always be fair to their students.
Teacher is singular, but their is plural, so they don't match. Still, we can't say "A teacher should always be fair to his students," because teachers are both men and women. "His or her students" sounds awkward. One easy way to handle this is to make teacher plural so it will match their.

Example: Teachers should always be fair to their students.
Directions: Correct the problems in the following sentences by crossing out the incorrect words and writing in the correct nouns and pronouns. (If you make the noun plural, make the verb plural, too.)

## its

Examples: Ron's school won their basketball game.

## cats are

You can tell if is angry by watching their tails.

1. A student should try to praise their friends' strong points.
2. The group finished their work on time in spite of the deadline.
3. A parent usually has a lot of faith in their children.
4. The company paid their workers once a week.
5. The train made their daily run from Chicago to Detroit.
6. Each student should have a title on their papers.


Directions: Complete these sentences with the correct pronouns.

1. Simon fell out of the tree and scraped $\qquad$ arm.
2. The citizens felt a deep pride in $\qquad$ community.
3. Abby and Leah wear $\qquad$ hair in the same style.
4. I dyed some shirts, but $\qquad$ didn't turn out right.
5. The nurse showed the mother how to bathe $\qquad$ baby.
6. Our school made $\$ 75$ from $\qquad$ carnival.

## Pronouns as Subjects

A pronoun is a word that takes the place of a noun. The pronouns $\mathbf{I}$, we, he, she, it, you, and they can be the subjects of a sentence.

## Examples:

I left the house early.
You need to be more careful.
She dances well.
A pronoun must be singular if the noun it replaces is singular. A pronoun must be plural if the noun it replaces is plural. He, she, and it are singular pronouns. We and they are plural pronouns. You is both singular and plural.

## Examples:

Jazmin practiced playing the piano. She plays well.
Andre and I are studying Africa. We made a map of it. The children clapped loudly. They liked the clown.


Directions: Write the correct pronouns.

1. Bobcats hunt at night. $\qquad$ are not seen during the day.
2. The mother bobcat usually has babies during February or March. $\qquad$ may have two litters a year.
3. The father bobcat stays away when the babies are first born. Later, $\qquad$ helps find food for them.
4. We have a new assignment. $\qquad$ is a project about bobcats.
5. My group gathered pictures of bobcats. $\qquad$ made a display.
6. Stella wrote our report. $\qquad$ used my notes.

Directions: Circle the pronouns that do not match the nouns they replace. Then, write the correct pronouns on the lines.
7. Two boys saw a bobcat. He told us what happened. $\qquad$
8. Then, we saw a film. They showed bobcats climbing trees. $\qquad$

## Pronouns as Direct Objects

The pronouns me, you, him, her, it, us, and them can be used as direct objects.

## Examples:

I heard Grant. Grant heard me.
We like the teacher. The teacher likes us. He saw the dog. The dog saw him.

A pronoun used as a direct object must be plural if the noun is plural and singular if the noun is singular.


Directions: Write the correct pronouns.

1. Goldfish come from China. The Chinese used to eat $\qquad$ like trout.
2. The prettiest goldfish were kept as pets. The Chinese put $\qquad$ in small bowls and ponds.
3. My sister, brother, and I have goldfish. Grandpa took $\qquad$ to the store to get them.
4. They come to the top when I am around. I think they like $\qquad$ .
5. My sister's fish was white. She kept $\qquad$ for three weeks.
6. She claimed the fish splashed $\qquad$ when she fed it.

Directions: Circle pronouns that do not match the nouns they replace. Rewrite the sentences using the correct pronouns. Change the verbs after the pronouns if necessary.
7. Goldfish often die because kids don't feed it.
8. Some goldfish live a long time because it is well cared for.
9. A wild goldfish will eat anything they think looks good.
10. Birds eat wild goldfish. It likes the young ones best.

## Pronouns as Indirect Objects and Objects of Prepositions

The pronouns me, you, him, her, it, us, and them can be used as indirect objects and objects of prepositions.

## Examples:

Pronouns as indirect objects: Shawn showed me his new bike. The teacher gave us two more days to finish our reports.
Pronouns as objects of prepositions: It's your turn after her. I can't do it without them.
A pronoun used as an indirect object or an object of a preposition must be singular if the noun it replaces is singular and plural if the noun it replaces is plural.

Directions: Write the correct pronouns. Above the pronoun, write $\mathbf{S}$ if it is the subject, DO if it is the direct object, IO if it is the indirect object, or $\mathbf{O P}$ if it is the object of a preposition.

1. Markos is coming to our party. I gave $\qquad$ the directions.
2. Janelle and Eldon used to be his friends. Is he still friends with $\qquad$ ?
3. Kevin and I like playing soccer, but $\qquad$ are not on the same team.
4. We listened closely while she told $\qquad$ what happened to $\qquad$ .
5. My brother hurt his hand, but I took care of $\qquad$ .
6. A piece of glass cut him when $\qquad$ dropped $\qquad$ .
7. When Annalisa won the race, the coach gave $\qquad$ a trophy.
8. We were hot and sweaty, but a breeze cooled $\qquad$ off.


## Pronouns

| Subjects: | he | she | it | you | l | they | we |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Objects: | him | her | it | you | me | them | us |
| Possessive: | his | her | its | your | my | their | our |
| Possessive: | his | hers | its | yours | mine | theirs | ours |
| Indefinite: | everyone | nobody | something | (and others) |  |  |  |

Directions: Complete these sentences with the correct pronouns from the box. Above each pronoun, write how it is used: $\mathbf{S}$ for subject, DO for direct object, IO for indirect object, OP for object of a preposition, $\mathbf{P P}$ for possessive pronoun, or IP for indefinite pronoun.

1. Last week, we had a food drive at $\qquad$ church.
2. $\qquad$ in our Sunday school class helped collect food.
3. I walked down my street and asked $\qquad$ neighbors for food.
4. They gave $\qquad$ cans and boxes of food.
5. Kelly came with $\qquad$ and helped $\qquad$ carry all of $\qquad$ .
6. Tomas had brought his old red wagon from $\qquad$ house.
7. When I saw it, $\qquad$ wished I had brought $\qquad$ .
8. Kelly and $\qquad$ had to put $\qquad$ cans in grocery bags.
9. Those bags were really heavy when $\qquad$ were full.
10. When I picked one up, $\qquad$ tore and the cans fell out!
11. Jeremy's sister gave $\qquad$ a ride around the neighborhood.
12. Walking made Kelly and $\qquad$ hungry.

## Review

Directions: Write a noun for each possessive pronoun.

1. my $\qquad$ 5. our $\qquad$
2. his $\qquad$
3. your $\qquad$
4. her $\qquad$
5. their $\qquad$
Directions: Use these indefinite pronouns in sentences.
6. everyone $\qquad$
7. nobody $\qquad$
8. something $\qquad$
Directions: Use these interrogative pronouns in sentences.
9. who $\qquad$
10. what $\qquad$
11. which $\qquad$
Directions: Use these relative pronouns in sentences.
12. who $\qquad$
13. whom $\qquad$
14. which $\qquad$
15. that $\qquad$


## Adjectives

An adjective describes a noun or pronoun. There are three types of adjectives. They are positive, comparative, and superlative.

## Examples:

Positive
big beautiful likely

Comparative
bigger
more beautiful less likely

Superlative biggest most beautiful least likely


Directions: Write the comparative and superlative forms of these adjectives.

## Writing: Comparatives

Comparatives are forms of adjectives or adverbs used to compare different things. With adjectives, you usually add er to the end to make a comparative. If the adjective ends in $\mathbf{y}$, drop the $\mathbf{y}$ and add ier.

## Examples: Adjective Comparative tall taller easy easier

With adverbs, you usually add more before the word to make a comparative.

## Examples: Adverb

quickly softly

## Comparative

more quickly more softly


Directions: Using the given adjective or adverb, write a sentence comparing the two nouns.

Example: clean my room my sister's room
My room is always cleaner than my sister's room.

1. cold Alaska Florida
2. neatly Maria her brother
3. easy English math
4. scary book movie
5. loudly the drummer the guitarist
6. pretty autumn winter

## Good and Bad

When the adjectives good and bad are used to compare things, the entire word changes.

## Examples:

|  | Comparative | Superlative <br> good <br> better |
| :--- | :--- | :--- |
| best |  |  |
| bad | worse | worst |

Use the comparative form of an adjective to compare two people or objects. Use the superlative form to compare three or more people or objects.

## Examples:

This is a good day.
Tomorrow will be better than today.
My birthday is the best day of the year.


This hamburger tastes bad.
Does it taste worse than the one your brother cooked?
It's the worst hamburger I have ever eaten.
Directions: Write the correct words in the blanks to complete these sentences.
$\qquad$ 1. Our team just had its bad/worse/worst season ever.
2. Not everything about our team was bad/worse/worst, though.
3. Our pitcher was good/better/best than last year.
4. Our catcher is the good/better/best in the league.
5. We had good/better/best uniforms, like we do every year.
6. I think we just needed good/better/best fielders.
7. Next season we'll do good/better/best than this one.
8. We can't do bad/worse/worst than we did this year.
9. I guess everyone has one bad/worse/worst year.
10. Now that ours is over, we'll get good/better/best.

## Demonstrative and Indefinite Adjectives

A demonstrative adjective identifies a particular person, place, or thing. This, these, that, and those are demonstrative adjectives.

## Examples:

this pen
that chair
these earrings
those books
An indefinite adjective does not identify a particular person, place, or thing, but rather a group or number. All, any, both, many, another, several, such, some, few, and more are indefinite adjectives.

## Examples:

all teachers
both girls another man
any person
many flowers
more marbles


Directions: Use each noun in a sentence with a demonstrative adjective.

1. dishes $\qquad$
2. clothes $\qquad$
3. cats $\qquad$
4. team $\qquad$
5. apples $\qquad$
6. stereo $\qquad$
7. mountain $\qquad$
Directions: Use each noun in a sentence with an indefinite adjective.
8. reporters $\qquad$
9. decisions $\qquad$
10. papers $\qquad$
11. pears $\qquad$
12. occupations $\qquad$
13. friends $\qquad$

## Interrogative and Possessive Adjectives

An interrogative adjective is used when asking a question. The interrogative adjectives are what and which.

## Examples:

What kind of haircut will you get?
Which dog snarled at you?
A possessive adjective shows ownership. The possessive adjectives are our, your, her, his, its, my, and their.

## Examples:

That is $\mathbf{m y}$ dog.
He washed his jeans.
Our pictures turned out great.


Directions: Write six sentences containing interrogative adjectives and six sentences containing possessive adjectives.

## Interrogative Adjectives

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$

## Possessive Adjectives

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$

## Prepositional Phrases as Adjectives

An adjective can be one word or an entire prepositional phrase.

## Examples:

The new boy with red hair The tall man in the raincoat The white house with green shutters

Directions: Underline the prepositional phrases used as adjectives.

1. The boy in the blue cap is the captain.
2. The house across the street is 100 years old.
3. Jo and Ty love muffins with nuts.
4. I lost the book with the green cover.
5. Do you know the girl in the front row?
6. I like the pony with the long tail.
7. The dog in that yard is not friendly.
8. The picture in this magazine looks like you.


Directions: Complete these sentences with prepositional phrases used as adjectives.
9. I'd like a sandwich $\qquad$ .
10. Did you read the book $\qquad$ ?
11. The dog $\qquad$ is my favorite.
12. The woman $\qquad$ is calling you.
13. I bought a shirt $\qquad$ .
14. I'm wearing socks $\qquad$ .
15. I found a box $\qquad$ .

## Adverbs

Adverbs modify verbs. Adverbs tell when, where, or how. Many, but not all adverbs, end in ly.
Adverbs of time answer the questions how often or when.

## Examples:

The dog escapes its pen frequently.
Smart travelers eventually will learn to use travelers' checks.
Adverbs of place answer the question where.
Example: The police pushed bystanders away from the accident scene.


Adverbs of manner answer the questions how or in what manner.
Example: He carefully replaced the delicate vase.
Directions: Underline the verb in each sentence. Circle the adverb. Write the question each adverb answers on the line.

1. My grandmother walks gingerly to avoid falls.
2. The mice darted everywhere to escape the cat.
3. He decisively moved the chess piece.
4. Our family frequently enjoys a night at the movies.
5. Later, we will discuss the consequences of your behavior.
6. The audience glanced up at the balcony where the noise originated.
7. The bleachers are already built for the concert.
8. My friend and I study daily for the upcoming exams.

## Adverbs

Like adjectives, adverbs have types of comparison. They are positive, comparative, and superlative.

## Examples:

Positive
expertly soon

## Comparative

 more expertly sooner

Directions: Underline the adverb in each sentence. Then, write the type of comparison on the line.

1. The car easily won the race. $\qquad$
2. Our class most eagerly awaited the return of our test. $\qquad$
3. My ice cream melted more quickly than yours. $\qquad$
4. Frances awoke early on the first day of school. $\qquad$
5. He knows well the punishment for disobeying his parents. $\qquad$
6. There is much work to be done on the stadium project. $\qquad$
7. The child played most happily with the building blocks. $\qquad$
8. This article appeared more recently than the other. $\qquad$
Directions: Write the comparative and superlative forms of these adverbs.

## Positive

9. hard
10. impatiently $\qquad$
11. anxiously
12. suddenly
13. far
14. long

Comparative
Superlative
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Prepositional Phrases as Adverbs

An adverb can be one word or an entire prepositional phrase.

## Examples:

They'll be here tomorrow. They always come on time. Move it down.
Put it under the picture. Drive carefully. He drove with care.

Directions: Underline the adverb or prepositional phrase used as an adverb in each sentence. In the blank, write how, when, or where to tell what the adverb or prepositional phrase explains.

1. Don't go swimming without a buddy.
2. Don't go swimming alone.
3. I wish you still lived here.

$\qquad$
4. I wish you still lived on our street.
5. I will eat lunch soon.
6. I will eat lunch in a few minutes. $\qquad$
7. He will be here in a few hours. $\qquad$
8. He will be here later.
9. I'm going outside.
$\qquad$
$\qquad$
10. I'm going in the backyard.
11. She smiled happily.
12. She smiled with happiness.

## Writing: Adjectives and Adverbs

An adjective is a describing word. It describes nouns. Adjectives can tell:

- Which one or what kind - the dog's floppy ears, the lost child
- How many - three wagons, four drawers

An adverb is also a describing word. It describes verbs, adjectives, or other adverbs.
Adverbs can tell:

- How - ran quickly, talked quietly
- When - finished prompty, came yesterday
- Where - lived there, drove backward
- How often - sneezed twice, always wins

Directions: The adjectives and adverbs are bold in the sentences below. Above each, write ADJ for adjective or ADV for adverb. Then, draw an arrow to the noun the adjective describes or to the verb the adverb describes.

## $A D J \quad A D V>$

Example: A girl in a green jacket quickly released the birds into the sky.

1. An old mayor was elected twice.
2. He carefully put the tall screen between our desks.
3. The new boy in our class moved here from Phoenix.
4. Today, our soccer team finally made its first goal.

5. The woman gently coaxed the frightened kitten out of the tree.

Directions: Use adjectives and adverbs to answer the questions below.
Example: The boy talked. (Which boy? How?)
The nervous boy talked loudly.

1. The plant grew. (Which plant? How?)
2. The birds flew. (How many? What kind? Where?)

## Writing: Adjectives and Adverbs

Adjectives and adverbs make sentences more interesting. Often, we can make adverbs from adjectives by adding ly to the end.

## Examples: Adjectives

quick
brief

## Adverbs

quickly briefly

If an adjective ends with a $\mathbf{y}$, change the y to an $\mathbf{i}$ before adding ly.

## Examples: Adjectives Adverbs <br> messy noisy messily noisily



Directions: Write a new sentence using each subject and adjective below. Then, add ly to the adjective, and write a new sentence using the adverb.

Example: teacher - brief
a. The teacher gave a brief talk about using lab equipment.
b. The teacher spoke briefly about using lab equipment.

1. sister - quiet
a. $\qquad$
b. $\qquad$
2. children - excited
a. $\qquad$
b. $\qquad$
3. players - tired
a. $\qquad$
b. $\qquad$
4. snow - soft
a. $\qquad$
b. $\qquad$

## Placement of Adjective and Adverb Phrases

Adjectives and adverbs, including prepositional phrases, should be placed as close as possible to the words they describe to avoid confusion.

## Example:

Confusing: The boy under the pile of leaves looked for the ball. (Is the boy or the ball under the pile of leaves?)
Clear: The boy looked under the pile of leaves for the ball.
Directions: Rewrite each sentence by moving the prepositional phrase closer to the word or words it describes. The first one has been done for you.


1. A bird at the pet store bit me in the mall.

A bird at the pet store in the mall bit me.
2. The woman was looking for her dog in the large hat.
3. This yard would be great for a dog with a fence.
4. The car hit the stop sign with the silver stripe.
5. My cousin with a big bow gave me a present.
6. The house was near some woods with a pond.
7. I'll be back to wash the dishes in a minute.
8. We like to eat eggs in the morning with toast.
9. He bought a shirt at the new store with short sleeves.
10. We live in the house down the street with tall windows.

## Writing: Parts of Speech Story

Directions: Play the following game with a partner. In the story below, some of the words are missing. Without letting your partner see the story, ask him or her to provide a word for each blank. Each word should be a noun, verb, adjective, or adverb, as shown. Then, read the story aloud. It might not make sense, but it will make you laugh!

Last night, as I was $\qquad$ through the $\qquad$ , a
$\qquad$
$\qquad$ fell from the ceiling and landed on my (adjective)
(noun) head! "Yikes!" I shrieked. I $\qquad$
$\qquad$ through the
(past-tense verb)
(adverb)
$\qquad$ , trying to get rid of the thing. Finally, it fell off, and it started (noun)
$\qquad$ around the $\qquad$ . I tried to hit it with a $\qquad$ ,
(verb + ing)
but it was too $\qquad$ .1 $\qquad$ managed to $\qquad$ (verb)
it out of the house, where it quickly climbed the nearest $\qquad$ .


## Writing: Parts of Speech

Directions: Write each word from the box in the column that names its part of speech. Some words can be listed in two columns.

## VERB

Example: Smile for the the camera.


| code | young | slowly |
| :--- | :--- | :--- |
| thirsty | praise | loan |
| nearby | twenty | Monday |
| coax | goal | bathe |


| today | finally | screen |
| :--- | :--- | :--- |
| broken | decrease | slowly |
| town | faithful | red |
| release | cheat | there |

## Noun

Verb
Adjective
Adverb
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Directions: Write four sentences, using at least three words from the box in each one. Mark each word as a noun (N), verb (V), adjective (ADJ), or adverb (ADV).
ADJ
ADV
N

Example: Twenty people slowly walked through the town.

## Conjunctions

A conjunction joins words or groups of words in a sentence. The most commonly used conjunctions are and, but, and or.

Examples: My brother and I both want to win the trophy. Tonight, it will rain or sleet. I wanted to go to the party, but I got sick.

Directions: Circle the conjunctions.

1. Dolphins and whales are mammals.

2. They must rise to the surface of the water to breathe, or they will die.
3. Dolphins resemble fish, but they are not fish.
4. Sightseeing boats are often entertained by groups of dolphins or whales.
5. Whales appear to effortlessly leap out of the water and execute flips.
6. Both whale and dolphin babies are born alive.
7. The babies are called calves and are born in the water, but they must breathe air within a few minutes of birth.
8. Sometimes an entire pod of whales will help a mother and calf reach the surface to breathe.
9. Scientists and marine biologists have long been intrigued by these ocean animals.
10. Whales and dolphins do not seem to be afraid of humans or boats.

Directions: Write six sentences using conjunctions.
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. $\qquad$
15. $\qquad$
16. $\qquad$

## Writing: Conjunctions

Too many short sentences make writing seem choppy. Short sentences can be combined to make writing flow better. Words used to combine sentences are called conjunctions.

Examples: but, before, after, because, when, or, so, and
Directions: Use or, but, before, after, because, when, and, or so to combine each pair of sentences. The first one has been done for you.

1. I was wearing my winter coat. I started to shiver.

I was wearing my winter coat, but I started to shiver.
2. Animals all need water. They may perish without it.
3. The sun came out. The ice began to thaw.
4. The sun came out. The day was still chilly.
5. Will the flowers perish? Will they thrive?
6. The bear came closer. We began to feel threatened.
7. Winning was a challenge. Our team didn't have much experience.
8. Winning was a challenge. Our team was up to it.

Directions: Write three sentences of your own. Use a conjunction in each sentence.

## Statements and Questions

A statement is a sentence that tells something. It ends with a period (.).
A question is a sentence that asks something. It ends with a question mark (?).

## Examples:

Statement: Shari is walking to school today.
Question: Is Shari walking to school today?
In some questions, the subject comes between two parts of the verb. In the examples below, the subjects are underlined. The verbs and the rest of the predicates are bold.

## Examples:

Is Miguel coming with us?
Who will be there?
Which one did you select?
To find the predicate, turn a question into a statement.
Example: Is Miguel coming with us? Miguel is coming with us.
Directions: Write $\mathbf{S}$ for statement or $\mathbf{Q}$ for question. Put a period after the statements and a question mark after the questions.
$\qquad$ 1. Today is the day for our field trip
2. How are we going to get there
3. The bus will take us
4. Is there room for everyone
5. Who forgot to bring a lunch
6. I'll save you a seat

Directions: Circle the subjects, and underline all parts of the predicates.
7. Do you like field trips?
8. Did you bring your coat?
9. Will it be cold there?
10. Do you see my gloves anywhere?
11. Is anyone sitting with you?
12. Does the bus driver have a map?
13. Are all the roads this bumpy?


## Statements and Questions

## Statements

Directions: Write 10 statements and 10 questions.


1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
Questions
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. $\qquad$
15. $\qquad$
16. 
17. $\qquad$
18. $\qquad$
19. $\qquad$
20. $\qquad$

## Commands, Requests, and Exclamations

A command is a sentence that orders someone to do something. It ends with a period or an exclamation mark (!).

A request is a sentence that asks someone to do something. It ends with a period or a question mark (?).

An exclamation is a sentence that shows strong feeling. It ends with an exclamation mark (!).

## Examples:

Command: Stay in your seat.
Request: Would you please pass the salt?
Please pass the salt.
Exclamation: Call the police!
In the first and last two sentences in the examples, the subject is not stated. The subject is understood to be you.

Directions: Write $\mathbf{C}$ if the sentence is a command, $\mathbf{R}$ if it is a request, and $\mathbf{E}$ if it is an exclamation. Put the correct punctuation at the end of each sentence.
$\qquad$ 1. Look both ways before you cross the street
$\qquad$ 2. Please go to the store and buy some bread for us
$\qquad$ 3. The house is on fire
$\qquad$ 4. Would you hand me the glue
$\qquad$ 5. Don't step there
$\qquad$ 6. Write your name at the top of the page
$\qquad$ 7. Please close the door
$\qquad$ 8. Would you answer the phone
$\qquad$ 9. Watch out
$\qquad$ 10. Take one card from each pile


## Commands, Requests, and Exclamations

Directions: Write six sentences for each type listed.
Command

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
Request
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$
Exclamation
13. $\qquad$


## Writing: Four Kinds of Sentences

There are four kinds of sentences used in writing. Different punctuation is used for different kinds of sentences.

A statement tells something. A period is used after statements.
Examples: I jogged five miles yesterday.
We are going to have a spelling test on Friday.
A question asks something. A question mark is used after questions.
Examples: What are you wearing to the dance?
Will it ever stop raining?
An exclamation shows strong feeling or excitement. An exclamation mark is used after exclamations.

Examples: Boy, am I tired!
What a beautiful painting!


A command tells someone to do something. A period or an exclamation mark is used after a command, depending on how strong it is.
Examples: Please hand me that pen. Don't touch the stove!
Directions: Write the correct punctuation mark at the end of each sentence below. Then, write whether the sentence is a statement, question, exclamation, or command.

Example: I didn't have time to finish my homework last night. statement

1. Why didn't she come shopping with us $\qquad$
2. Somebody call an ambulance
3. He's been watching TV all morning $\qquad$
4. How did you do on the quiz $\qquad$
5. Go sit in the third row
6. I have to go to the dentist tomorrow $\qquad$
7. I've never been so hungry
8. Who tracked mud all over the house $\qquad$
9. That restaurant is too expensive

## Compound Subjects/Compound Predicates

A compound subject has two or more nouns or pronouns joined by a conjunction. Compound subjects share the same predicate.

## Examples:

Suki and Spot walked to the park in the rain.
Cars, buses, and trucks splashed water on them.
He and I were glad we had our umbrella.
A compound predicate has two or more verbs joined by a conjunction. Compound predicates share the same subject.

## Examples:

Suki went in the restroom and wiped off her shoes.
Chloe followed Suki and waited for her.


A sentence can have a compound subject and a compound predicate.
Example: Amelia and Maria went to the mall and shopped for an hour.
Directions: Circle the compound subjects. Underline the compound predicates.

1. Luke and Kanye went to the store and bought some gum.
2. Police and firefighters worked together and put out the fire.
3. Makayla and Ellie did their homework and checked it twice.
4. In preschool, the boys and girls drew pictures and colored them.

Directions: Write compound subjects to go with these predicates.
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$ ate peanut butter sandwiches. left early. don'† make good pets. found their way home. are moving to Denver.

Directions: Write compound predicates to go with these subjects.
10. A scary book $\qquad$
11. My friend's sister $\qquad$
12. The shadow $\qquad$
13. The wind $\qquad$
14. The runaway car $\qquad$

## Combining Subjects

Too many short sentences make writing sound choppy. Often, we can combine sentences with different subjects and the same predicate to make one sentence with a compound subject.

## Example:

Katrina tried out for the play. Austin tried out for the play.
Compound subject: Katrina and Austin tried out for the play.
When sentences have different subjects and different predicates, we cannot combine them this way. Each subject and predicate must stay together. Two short sentences can be combined with a conjunction.

## Examples:

Katrina got a part in the play. Austin will help make scenery. Katrina got a part in the play, and Austin will help make scenery.


Directions: If a pair of sentences share the same predicate, combine them with compound subjects. If the sentences have different subjects and predicates, combine them using and.

1. Rachel read a book about explorers. Eric read the same book about explorers.
2. Rachel really liked the book. Eric agreed with her.
3. Aiko went to the basketball game last night. Dan went to the basketball game, too.
$\qquad$
4. Aiko lost her coat. Dan missed his ride home.
$\qquad$
5. My uncle planted corn in the garden. My mother planted corn in the garden.
6. Isaac helped with the food drive last week. Amy helped with the food drive, too.

## Combining Predicates

If short sentences have the same subject and different predicates, we can combine them into one sentence with a compound predicate.

## Example:

Andy got up late this morning.
He nearly missed the school bus.
Compound predicate: Andy got up late this morning and nearly missed the school bus.


The pronoun he takes the place of Andy in the second sentence, so the subjects are the same and can be combined.

When two sentences have different subjects and different predicates, we cannot combine them this way. Two short sentences can be combined with a conjunction.

## Examples:

Andy got up late this morning. Pilar woke up early.
Andy got up late this morning, but Pilar woke up early.
Directions: If the pair of sentences share the same subject, combine them with compound predicates. If the sentences have different subjects and predicates, combine them using and or but.

1. Kyle practiced pitching all winter. Kyle became the pitcher for his team.
2. Kisha studied for her history test for two hours. Angela watched TV.
3. Ethan had an earache. He took medicine four times a day.
4. Nikki found a new hairstyle. Lily didn't like that style.
5. Kirby buys his lunch every day. Sean brings his lunch from home.

## Writing: Using Commas Correctly

A comma tells a reader where to pause when reading a sentence. Use commas when combining two or more complete sentences with a joining word.

## Examples: We raked the leaves, and we put them into bags. Brian dressed quickly, but he still missed the school bus.

Do not use commas if you are not combining complete sentences.
Examples: We raked the leaves and put them into bags.
Brian dressed quickly but still missed the school bus.
If either part of the sentence does not have both a subject and a verb, do not use a comma.

Directions: Read each sentence below, and decide whether or not it needs a comma. If it does, rewrite the sentence, placing the comma correctly. If it doesn't, write $\mathbf{O K}$ on the line.

1. The cat stretched lazily and walked out of the room.
2. I could use the money to buy a new shirt or I could go to the movies.
3. My sister likes pizza but she doesn' $\dagger$ like spaghetti.
4. Mom mixed the batter and poured it into the pan.
5. The teacher passed out the tests and she told us to write our names on them.
6. The car squealed its tires and took off out of the parking lot.
7. The snow fell heavily and we knew the schools would be closed the next day.
8. The batter hit the ball and it flew over the fence.

## Run-On Sentences

A run-on sentence occurs when two or more sentences are joined together without the correct punctuation. A run-on sentence must be divided into two or more separate sentences.

## Example:

Run-on: On Tuesday my family went to the amusement park but unfortunately it rained and we got wet and it took hours for our clothes to dry.
Correct: On Tuesday, my family went to the amusement park. Unfortunately, it rained and we got wet. It took hours for our clothes to dry.

Directions: Rewrite these run-on sentences correctly.


1. I have a dog named Boxer and a cat named Phoebe and they are both well-behaved and friendly.
$\qquad$
$\qquad$
2. Jacob's basketball coach makes the team run for 20 minutes each practice and then he makes them play a full game and afterwards he makes them do 50 push-ups and 100 sit-ups.
$\qquad$
$\qquad$
$\qquad$
3. My family members each enjoy different hobbies Mom likes to paint Dad likes to read I like to play sports and my younger sister likes to build model airplanes although I think they are too hard.

## Commas

Commas are used to separate items in a series.

## Example:

The fruit bowl contains oranges, peaches, pears, and apples.
Commas are also used to separate geographical names and dates.

## Examples:

Today's date is January 13, 2015.
My grandfather lives in Tallahassee, Florida.
I would like to visit Paris, France.
Directions: Place commas where needed in these sentences.


1. I was born on September 212006.
2. Mateo's favorite sports include basketball football hockey and soccer.
3. The ship will sail on November 162016.
4. My family and I vacationed in Salt Lake City Utah.
5. I like to plant beans beets corn and radishes in my garden.
6. Xander's party will be held in Youngstown Ohio.

7. Periods commas colons and exclamation marks are types of punctuation.
8. Cardinals juncos blue jays finches and sparrows frequent our birdfeeder.
9. My grandfather graduated from high school on June 41962.
10. The race will take place in Burlington Vermont.

Directions: Write a sentence using commas to separate words in a series.
11. $\qquad$
Directions: Write a sentence using commas to separate geographical names.
12. $\qquad$
Directions: Write a sentence using commas to separate dates.
13.

## Commas

Commas are used to separate a noun or pronoun in a direct address from the rest of the sentence. A noun or pronoun in a direct address is one that names or refers to the person addressed.

## Examples:

John, this room is a mess!
This room, John, is a disgrace!
Your room needs to be more organized, John.
Commas are used to separate an appositive from the rest of the sentence. An appositive is a word or
 words that give the reader more information about a previous noun or pronoun.

## Examples:

My teacher, Ms. Wright, gave us a test.
Thomas Edison, the inventor of the lightbulb, was an interesting man.
Directions: Place commas where needed in these sentences. Then, write appositive or direct address on the line to explain why the commas were used.

1. Li do you know the answer? $\qquad$
2. Jackson the local football hero led the parade through town. $\qquad$
3. Cancun a Mexican city is a favorite vacation destination. $\qquad$
4. Please help me move the chair Isobel. $\qquad$
5. My great-grandfather an octogenarian has witnessed many events. $\qquad$
6. The president of the company Madison Fagan addressed his workers. $\qquad$
7. My favorite book Anne of Green Gables is a joy to read. $\qquad$
8. Your painting Andre shows great talent. $\qquad$

## Combining Sentences

When the subjects are the same, sentences can be combined by using appositives.

## Examples:

Tony likes to play basketball. Tony is my neighbor. Tony, my neighbor, likes to play basketball.

Ms. Herman was sick today. Ms. Herman is our math teacher. Ms. Herman, our math teacher, was sick today.

Appositives are set off from the rest of the sentence with commas.
Directions: Use commas and appositives to combine the pairs of sentences.

1. Julie has play practice today. Julie is my sister.
2. Greg fixed my bicycle. Greg is my cousin.
3. Mr. Cruz told us where to meet. Mr. Cruz is our coach.
4. Tiffany is moving to Detroit. Tiffany is my neighbor.
5. Kyle has the flu. Kyle is my brother.
6. My favorite football team is playing tonight. Houston is my favorite team.
7. Bonnie Pryor will be at our school next week. Bonnie Pryor is a famous author.
8. Our neighborhood is having a garage sale. Our neighborhood is the North End.

## Combining Sentences

Directions: Combine these sentences. Some of them can be combined using commas and appositives. Some can be combined using compound subjects or predicates. Others can be combined using conjunctions.

1. Alana enjoyed playing on the beach. Ty did not like the sand.
2. Jelani studied hard for the math test. Kim studied hard for the math test.
3. Ryan got sick. Ryan had to visit his family doctor.
4. Jeni is my study partner. Jeni is always running late for class.
5. Drake scored the game-winning touchdown. Drake is the team's star quarterback.
6. We were ready to leave. The car wouldn't start.
7. Vanessa ran outside. Vanessa rode her bicycle to the park.
8. The fierce wind ruined our family picnic. The pouring rain ruined our family picnic.
9. Mrs. Raposa handed me a new book about dinosaurs. Mrs. Raposa is the school librarian.
10. School was out for the summer. Amira was ready for new adventures.

## Punctuation

Directions: Add commas where needed. Put the correct punctuation at the end of each sentence.

1. My friend Jamie loves to snowboard

2. Winter sports such as hockey skiing and skating are fun
3. Oh what a lovely view
4. The map shows the continents of Asia Africa Australia and Antarctica
5. My mother a ballet dancer will perform tonight
6. What will you do tomorrow
7. When will the plane arrive at the airport
8. Jason do you know what time it is
9. Friends of ours the Watsons are coming for dinner
10. Margo look out for that falling rock
11. The young child sat reading a book
12. Who wrote this letter
13. My sister Jill is very neat
14. The trampoline is in our backyard
15. We will have chicken peas rice and salad for dinner
16. That dog a Saint Bernard looks dangerous

## Quotation Marks

When a person's exact words are used in a sentence, quotation marks (" "") are used to identify those words. Commas are used to set off the quotation from the rest of the sentence. End punctuation is placed inside the final quotation mark.

## Examples:

"When are we leaving?" Joe asked.
Jada shouted, "Go, team!"
When a sentence is interrupted by words that are not part of the quotation (he said, she answered, etc.), they are not included in the quotation marks. Note how commas are used in the next example.

Example: "l am sorry," the man announced, "for my rude behavior."

Directions: Place quotation marks, commas, and other punctuation where needed in the sentences below.

1. Watch out yelled Dad.

2. Angela said I don'† know how you can eat Brussels sprouts, Ted
3. Put on your coats said Mom. We'll be leaving in 10 minutes
4. Did you hear the assignment asked Salima.
5. Dominic shouted This game is driving me up the wall
6. After examining our dog, the veterinarian said He looks healthy and strong
7. The toddlers both wailed We want a snack
8. The judge announced to the swimmers Take your places
9. Upon receiving the award, the actor said I'd like to thank my friends and family
10. These are my favorite granola bars said Becca
11. This test is too hard moaned the class.
12. When their relay team came in first place, the runners shouted, Hooray
13. Where shall we go on vacation this year Dad asked.
14. As we walked past the machinery, the noise was deafening. Cover your ears said Mom.
15. Fire yelled the chef as his pan ignited.
16. I love basketball my little brother stated.

## Capitalization/Punctuation

Directions: Rewrite the paragraphs below, adding punctuation where it is needed. Capitalize the first word of each sentence and all other words that should be capitalized.
my mom is a geologist so she has the opportunity to travel often for work last year she visited england scotland and ireland dad says that he hopes the whole family can come when she goes to the netherlands next year would you like to have a job where you travel or are you a homebody
my cousin jeff is starting college this fall he wants to be a medical doctor, so he's going to central university the mayor of our town went there mayor stevens told jeff all about the university our town is so small that everyone knows what everyone else is doing is your town like that
my grandparents took a long vacation last year grandma really likes to go to the atlantic ocean and watch the dolphins my grandfather likes to fish in the ocean my aunt went with them last summer they all had a party on the fourth of july


## Capitalization

Directions: Write C if capital letters are used correctly or $\mathbf{X}$ if they are used incorrectly.
$\qquad$ 1. Who will win the election for Mayor in November?
$\qquad$ 2. Tom Johnson used to be a police officer.
3. He announced on monday that he wants to be mayor.
$\qquad$ 4. My father said he would vote for Tom.
$\qquad$ 5. Mom and my sister Mia haven't decided yet.
$\qquad$ 6. They will vote at our school.
$\qquad$ 7. Every Fall and Spring they put up voting booths there.
$\qquad$ 8. I hope the new mayor will do something about our river.
9. That River is full of chemicals.

__ 10. I'm glad our water doesn't come from Raven River.
___ 11. In late Summer, the river actually stinks.
___ 12. Is every river in our State so dirty?
$\qquad$ 13. Scientists check the water every so often.
$\qquad$ 14. Some professors from the college even examined it.
15. That is getting to be a very educated River!

Directions: Write sentences that include:
16. A person's title that should be capitalized.
$\qquad$
17. The name of a place that should be capitalized.
$\qquad$
18. The name of a time (day, month, holiday) that should be capitalized.

## Who Clauses

A clause is a group of words with a subject and a verb. When the subject of two sentences is the same person or people, the sentences can sometimes be combined with a "who" clause.

## Examples:

Layla likes animals. Layla feeds the squirrels.
Layla, who likes animals, feeds the squirrels.


A "who" clause is set off from the rest of the sentence with commas.
Directions: Combine the pairs of sentences using "who" clauses.

1. Teddy was late to school. Teddy was sorry later.
2. Our principal is retiring. Our principal will be 65 this year.
3. Michael won the contest. Michael will receive an award.
4. Aisha lives next door. Aisha has three cats.
5. Devon drew that picture. Devon takes art lessons.
6. Marta was elected class president. Marta gave a speech.
7. Amy broke her arm. Amy has to wear a cast for six weeks.
8. Dr. Chandra fixed my tooth. He said it would feel better soon.

## Which Clauses

When the subject of two sentences is the same thing or things, the sentences can sometimes be combined with a "which" clause.

## Examples:

The guppy was first called "the millions fish." The guppy was later named after Reverend Robert Guppy in 1866. The guppy, which was first called "the millions fish," was later named after Reverend Robert Guppy in 1866.

A "which" clause is set off from the rest of the sentence with commas.
Directions: Combine the pairs of sentences using "which" clauses.


1. Guppies also used to be called rainbow fish. Guppies were brought to Germany in 1908.
2. The male guppy is about 1 inch long. The male is smaller than the female.
3. The guppies' colors range from red to violet. The colors are brighter in the males.
4. Baby guppies hatch from eggs inside the mothers' bodies. The babies are born alive.
5. The young are usually born at night. The young are called "fry."
6. Female guppies have from two to 50 fry at one time. Females sometimes try to eat their fry!
$\qquad$
7. These fish have been studied by scientists. The fish actually like dirty water.
8. Wild guppies eat mosquito eggs. Wild guppies help control the mosquito population.

## Who and Which Clauses

Directions: Combine the pairs of sentences using "who" or "which" clauses.

1. Bullfrogs are rarely found out of the water. They live near ponds and streams.
2. These frogs grow to be about 8 inches long. These frogs can jump 3 feet.
3. Mark Twain was a famous writer. He wrote a story about a frog-jumping contest.
$\qquad$
$\qquad$
4. This story took place in California. This story started an annual frog-jumping contest there.
$\qquad$
$\qquad$
5. The contest has rules and judges. The contest allows each frog to make three leaps.
$\qquad$
$\qquad$
6. The judges watch carefully. They measure each frog's leap.
$\qquad$
$\qquad$
7. Bullfrogs eat many insects. Bullfrogs also eat small snakes.
$\qquad$
$\qquad$
8. Scientists study what frogs eat. Scientists know bullfrogs can catch birds.

## That Clauses

When the subject of two sentences is the same thing or things, the sentences can sometimes be combined with a "that" clause. Use that instead of which when the clause is very important in the sentence.

## Examples:

The store is near our house. The store was closed.
The store that is near our house was closed.
The words that is near our house are very important in the
 combined sentence. They tell the reader which store was closed. A "that" clause is not set off from the rest of the sentence with commas.

## Examples:

Pete's store is near our house. Pete's store was closed.
Pete's store, which is near our house, was closed.
The words which is near our house are not important to the meaning of the combined sentence. The words Pete's store already told us which store was closed.

Directions: Combine the pairs of sentences using "that" clauses.

1. The dog lives next door. The dog chased me.
2. The bus was taking us to the game. The bus had a flat tire.
$\qquad$
3. The fence is around the school. The fence is painted yellow.
$\qquad$
4. The notebook had my homework in it. The notebook is lost.
5. A letter came today. The letter was from Mary.
6. The lamp was fixed yesterday. The lamp doesn't work today.
7. The lake is by our cabin. The lake is filled with fish.

## That and Which Clauses

Directions: Combine the pairs of sentences using either a "that" or a "which" clause.

1. The TV show was on at 8:00 last night. The TV show was funny.

2. The Snappy Show was on at 8:00 last night. The Snappy Show was funny.
3. The Main Bank is on the corner. The Main Bank is closed today.
4. The bank is on the corner. The bank is closed today.
5. The bus takes Dad to work. The bus broke down.
6. The Broad Street bus takes Dad to work. The Broad Street bus broke down.

## Combining Sentences

Not every pair of sentences can be combined with "who," "which," or "that" clauses. These sentences can be combined in other ways, either with a conjunction or by renaming the subject.

## Examples:

Tim couldn't go to sleep. Todd was sleeping soundly. Tim couldn't go to sleep, but Todd was sleeping soundly.

The zoo keeper fed the baby ape. A crowd gathered to watch. When the zoo keeper fed the baby ape, a crowd gathered to watch.


Directions: Combine each pair of sentences using "who," "which," or "that" clauses, by using a conjunction, or by renaming the subject.

1. The box slipped off the truck. The box was filled with bottles.
2. Carolyn is our scout leader. Carolyn taught us a new game.
3. The girl is 8 years old. The girl called the emergency number when her grandmother fell.
4. The meatloaf is ready to eat. The salad isn't made yet.
5. The rain poured down. The rain canceled our picnic.
6. The sixth-grade class went on a field trip. The school was much quieter.

## Who's and Whose

Who's is a contraction for who is.
Whose is a possessive pronoun.

## Examples:

Who's going to come?
Whose shirt is this?
To know which word to use, substitute the words "who is." If the sentence makes sense, use who's.


Directions: Write the correct words to complete these sentences.
$\qquad$ 1. Do you know who's/whose invited to the party?
$\qquad$ 2. I don't even know who's/whose house it will be at.
3. Who's/Whose towel is on the floor?
$\qquad$ 4. Who's/Whose going to drive us?
$\qquad$ 5. Who's/Whose ice cream is melting?
$\qquad$ 6. I'm the person who's/whose gloves are lost.
$\qquad$ 7. Who's/Whose in your group?
8. Who's/Whose group is first?
$\qquad$ 9. Can you tell who's/whose at the door?
$\qquad$ 10. Who's/Whose friend are you?
11. Who's/Whose cooking tonight?
12. Who's/Whose cooking do you like best?

## Their, There, and They're

Their is a possessive pronoun meaning "belonging to them."

There is an adverb that indicates place.
They're is a contraction for they are.

## Examples:

Raj and Kai took their dog to the park.
They like to go there on Sunday afternoon.


They're probably going back next Sunday, too.
Directions: Write the correct words to complete these sentences.
$\qquad$ 1. All the students should bring their/there/they're books to class.
2. I've never been to France, but I hope to travel their/there/they're someday.
$\qquad$ 3. We studied how dolphins care for their/there/they're young.
$\qquad$ 4. My parents are going on vacation next week, and their/there/they're taking my sister.
5. Their/There/They're was a lot of food at the party.
6. My favorite baseball team lost their/there/they're star pitcher this year.
7. Those peaches look good, but their/there/they're not ripe yet.
8. The book is right their/there/they're on the table.

## Teach and Learn

Teach is a verb meaning "to explain something." Teach is an irregular verb. Its past tense is taught.

Learn is a verb meaning "to gain information."

## Examples:

Carrie will teach me how to play the piano. Yesterday, she taught me "Chopsticks."

I will learn a new song every week.
Yesterday, I learned to play "Chopsticks."


Directions: Write the correct words to complete these sentences.
$\qquad$ 1. My brother taught/learned me how to ice skate.
2. With his help, I taught/learned in three days.
3. First, I tried to teach/learn skating from a book.
4. I couldn't teach/learn that way.
5. You have to try it before you can really teach/learn how to do it.
6. Now, I'm going to teach/learn my cousin.
7. My cousin already taught/learned how to roller skate.
8. I shouldn't have any trouble teaching/learning her how to ice skate.
9. Who taught/learned you how to skate?
$\qquad$ 10. My brother taught/learned Mom how to skate, too.
11. My mother took longer to teach/learn it than I did.
12. Who will he teach/learn next?
13. Do you know anyone who wants to teach/learn how to ice skate?
14. My brother will teach/learn you for free.
15. You should teach/learn how to ice skate in the wintertime, though. The ice is a little thin in the summer!

## Lie and Lay

Lie is a verb meaning "to rest." Lie is an intransitive verb that doesn't need a direct object.
Lay is a verb meaning "to place or put something down." Lay is a transitive verb that requires a direct object.

## Examples:

Lie here for a while. (Lie has no direct object; here is an adverb.)
Lay the book here. (Lay has a direct object: book.)
Lie and lay are especially tricky because they are both irregular verbs. Notice the past tense of lie is lay!

| Present tense | ing form | Past tense | Past participle |
| :--- | :--- | :--- | :--- |
| lie | lying | lay | has/have/had lain |
| lay | laying | laid | has/have/had laid |

## Examples:

I lie here today.
I lay here yesterday.
I was lying there for three hours.

I lay the baby in her bed.
I will be laying her down in a minute.
I laid her in her bed last night, too.

Directions: Write the correct words to complete these sentences.
$\qquad$ 1. Shelly lies/lays a blanket on the grass.
2. Then, she lies/lays down in the sun.
3. Her dog lies/lays there with her.
4. Yesterday, Shelly lay/laid in the sun for an hour.
5. The workers are lying/laying bricks for a house.
6. Yesterday, they lay/laid a ton of them.

7. They lie/lay one brick on top of the other.
8. The bricks just lie/lay in a pile until the workers are ready for them.
9. At lunchtime, some workers lie/lay down for a nap.
10. Would you like to lie/lay bricks?
11. Last year, my uncle lay/laid bricks for his new house.
12. He was so tired every day that he lay/laid down as soon as he finished.

## Rise and Raise

Rise is a verb meaning "to get up" or "to go up." Rise is an intransitive verb that doesn't need a direct object.

Raise is a verb meaning "to lift" or "to grow." Raise is a transitive verb that requires a direct object.

## Examples:

The curtain rises.
The girl raises her hand.
Raise is a regular verb. Rise is irregular.


| Present tense <br> rise <br> raise |
| :--- |

## Past tense <br> rose <br> raised

Past participle
has/have/had risen
has/have/had raised

## Examples:

The sun rose this morning.
The boy raised the window higher.
Directions: Write the correct words to complete these sentences.
$\qquad$ 1. This bread dough rises/raises in an hour.
2. The landlord will rise/raise the rent.
3. The balloon rose/raised into the sky.
4. My sister rose/raised the seat on my bike.
$\qquad$ 5. The baby rose/raised the spoon to his mouth.
$\qquad$ 6. The eagle rose/raised out of sight.
7. The farmer rises/raises pigs.
$\qquad$ 8. The scouts rose/raised the flag.
9. When the fog rose/raised, we could see better.
$\qquad$ 10. The price of gasoline rose/raised again.
$\qquad$ 11. The king rose/raised the glass to his lips.
12. Rise/Raise the picture on that wall higher.

## All Right, All Ready, and Already

All right means "well enough" or "very well." Sometimes, you may see all right spelled alright. This is not the preferred spelling and is considered very informal.

## Example:

Correct: We'll be all right when the rain stops.
Incorrect: Are you feeling alright today?
All ready is an adjective meaning "completely ready."
Already is an adverb meaning "before this time" or "by this time."

## Examples:

Are you all ready to go?
He was already there when I arrived.
Directions: Write the correct words to complete these sentences.
$\qquad$ 1. The children are all ready/already for the picnic.
$\qquad$ 2. Ted was all ready/already late for the show.
$\qquad$ 3. Is your sister going to be all right/alight?
4. I was all ready/already tired before the race began.
$\qquad$ 5. Nadia has all ready/already left for the dance.
$\qquad$ 6. Will you be all right/alright by yourself?
$\qquad$ 7. We are all ready/already for our talent show.
$\qquad$ 8. I all ready/already read that book.
$\qquad$ 9. I want to be all ready/already when they get here.
$\qquad$ 10. Dad was sick, but he's all right/alright now.
$\qquad$ 11. The dinner is all ready/already to eat.
$\qquad$ 12. Brooklyn all ready/already wrote her report.


## Accept and Except / Affect and Effect

Accept is a verb meaning "to receive."
Except can be used as a verb or a preposition. As a verb, it means "to leave out." As a preposition, it means "excluding."

## Examples:

I will accept the invitation to the dinner dance.
No one except Robert will receive an award.
Affect is a verb meaning "to impress one's thoughts or feelings."
Effect can be used as a noun or a verb. As a verb, it means "to accomplish." As a noun, it means "the result of an action."

## Examples:

Her attitude may affect her performance on the test.


He effected several changes during his first few months as governor.
The effects of the storm will be felt for some time.
Directions: Write the correct words to complete these sentences.
$\qquad$ 1. My partner and I will work to affect/effect attitudes toward rainforest renewal.
$\qquad$ 2. He courageously accepted/excepted the challenge of a chess duel.
3. The affect/effect of the strike by truck drivers was felt nationwide.
4. The new CEO of the company sought to affect/effect a change in company morale.
5. Everyone accept/except Zola will attend the game.
6. My grandmother will never accept/except the fact that she can no longer drive.
7. Accept/Except for this chewing incident, my puppy has been well-behaved.
$\qquad$ 8. The sights of the war affected/effected soldiers for the rest of their lives.
9. What affect/effect will the drop in the stock market have on the average person?
10. The affect/effect of the wind was devastating.
11. How will cheating on a test affect/effect your reputation?
12. I would like to go to the park on any day accept/except Monday.

## Review

Directions: Use each of these words correctly in a sentence of your own.

1. good $\qquad$
2. bad $\qquad$
3. who's $\qquad$
4. whose $\qquad$
5. their $\qquad$
6. there $\qquad$
7. they're $\qquad$
8. teach $\qquad$
9. learn $\qquad$
10. lie $\qquad$
11. lay $\qquad$
12. rise $\qquad$
13. raise $\qquad$
14. all ready $\qquad$
15. already $\qquad$
16. all right $\qquad$
17. accept $\qquad$
18. except $\qquad$
19. affect $\qquad$
20. effect $\qquad$



## Writing: Topic Sentences

The topic sentence in a paragraph usually comes first. Sometimes, however, the topic sentence can come at the end or even in the middle of a paragraph. When looking for the topic sentence, try to find the one that tells the main idea of a paragraph.

Directions: Read the following paragraphs, and underline the topic sentence in each.

The maple tree sheds its leaves every year. The oak and elm trees shed their leaves, too. Every autumn, the leaves on these trees begin changing color. Then, as the leaves gradually begin to die, they fall from the trees. Trees that shed their leaves annually are called deciduous trees.

When our family goes skiing, my brother enjoys the thrill of going down the steepest hill as fast as he can. Mom and Dad like to ski because it gets them out of the house and into the fresh air. I enjoy looking at the trees and birds and the sun shining on the snow. There is something about skiing that appeals to everyone in my family. Even the dog came along on our last skiing trip!

If you are outdoors at night and there is traffic around, you should always wear bright clothing so that cars can see you. White is a good color to wear at night. If you are riding a bicycle, be sure it has plenty of reflectors, and if possible, headlamps as well. Be especially careful when crossing the street, because sometimes drivers cannot see you in the glare of their headlights. Being outdoors at night can be dangerous, and it is best to be prepared!


## Writing: Supporting Sentences

A paragraph is a group of sentences that tell about one topic. The topic sentence in a paragraph usually comes first and tells the main idea of the paragraph. Supporting sentences follow the topic sentence and provide details about the topic.

Directions: Write at least three supporting sentences for each topic sentence below.

Example: Topic Sentence: Carly had an accident on her bike.
 Supporting Sentences: She was on her way to the store to buy some bread. A car came weaving down the road and scared her. She rode her bike off the road so the car wouldn't hit her. Now, her knee is scraped, but she's all right.

1. I've been thinking of ways I could make some more money after school.
2. In my opinion, cats (dogs, fish, etc.) make the best pets.
3. My life would be better if I had $a(n)$ (younger sister, younger brother, older sister, older brother).
4. I'd like to live next door to a (swimming pool, library, movie theater, etc.).

## Writing: Building Paragraphs

Directions: Read the groups of topic sentences and questions below. On another sheet of paper, write supporting sentences that answer the questions. Use your imagination! Write the supporting sentences in order, and copy them on this page after the topic sentence.

1. On her way home from school, Mariko made a difficult decision.


Questions: What was Mariko's decision? Why did she decide that? Why was the decision hard to make?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Suddenly, Conrad thought of a way to clear up all the confusion.

Questions: What was the confusion about? How was Conrad involved in it? What did he do to clear it up?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Bethany used to feel awkward at the school social activities.

Questions: Why did Bethany feel awkward before? How does she feel now? What happened to change the way she feels?

## Writing: Sequencing

When writing paragraphs, it is important to write events in the correct order. Think about what happens first, next, later, and last.

Directions: The following sentences tell about Chandra's day, but they are all mixed up. Read the sentences, and number them in the order in which they happened.
$\qquad$ She arrived at school and went to her locker to get her books.
$\qquad$ After dinner, she did the dishes, and then read for a while.
$\qquad$ Chandra brushed her teeth and put on her pajamas.
$\qquad$ She rode the bus home, and then she ate a snack.
$\qquad$ She ate breakfast and went out to wait for the bus.
___ Chandra woke up and picked out her clothes for school.
$\qquad$ She met her friend Sarah on the way to the cafeteria.

$\qquad$ She worked on homework and watched TV until her mom called her for dinner.
Directions: Write a short paragraph about what you did today. Use words like first, next, then, later, and finally to indicate the order in which you did things.

## Sequencing

Sequencing means to place events in order from beginning to end or first to last.

## Example:

To send a letter, you must:
Get paper, pencil or pen, an envelope, and a stamp. Write the letter.
Fold the letter, and put it in the envelope.
Address the envelope correctly.
Put a stamp on the envelope.
Put the envelope in the mailbox or take it to the post office.

Directions: Write the sequence for making a peanut butter and jelly sandwich.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Directions: After you finish, try making the sandwich exactly the way you wrote the steps. Did you leave out any steps? Which ones?

Does a particular section you wrote require a better explanation? Clarify your explanation by adding missing information.

## Author's Purpose

Authors write to fulfill one of three purposes: to inform, to entertain, or to persuade.
Authors who write to inform are providing facts for the reader in an informational context.
Examples: Encyclopedia entries and educational websites
Authors who write to entertain are hoping to provide enjoyment for the reader.
Examples: Funny stories and comics
Authors who write to persuade are trying to convince the reader to believe what they believe.
Examples: Editorials and opinion essays
Directions: Read each paragraph. Write inform, entertain, or persuade on the line to show the author's purpose.

1. The whooping crane is a migratory bird. At one time, this endangered bird was almost extinct. These large white cranes are characterized by red faces and trumpeting calls. Through protection of both the birds and their habitats, the whooping crane is slowly increasing in number.
2. It is extremely important that all citizens place bird feeders in their yards and keep them full for the winter. Birds that spend the winter in this area are in danger of starving due to lack of food. It is every citizen's responsibility to ensure the survival of the birds.
3. Imagine being able to hibernate like a bear each winter! Wouldn't it be great to eat to your heart's content all fall? Then, sometime in late November, inform your teacher that you will not be attending school for the next few months because you'll be resting and living off your fat? Now, that would be the life!
4. Bears, woodchucks, and chipmunks are not the only animals that hibernate. The queen bumblebee also hibernates in winter. All the other bees die before winter arrives. The queen hibernates under leaves in a small hole. She is cold-blooded and therefore is able to survive slightly frozen.

## Author's Purpose

Directions: Write a paragraph of your own for each purpose. The paragraph can be about any topic.

1. to inform
$\qquad$
$\qquad$
$\qquad$
2. to persuade
$\qquad$
$\qquad$
$\qquad$
3. to entertain
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Directions: Reread your paragraphs. Do they make sense? Check for grammar, spelling, and punctuation errors, and make corrections where needed.


## Descriptive Sentences

Descriptive sentences give readers a vivid image and enable them to imagine a scene clearly.

## Example:

Nondescriptive sentence: There were grapes in the bowl.
Descriptive sentence: The plump purple grapes in the bowl looked tantalizing.

Directions: Rewrite these sentences using descriptive language.

1. The dog walked in its pen.

$\qquad$
2. The turkey was almost done.
$\qquad$
3. I became upset when my computer wouldn't work.
$\qquad$
4. Jared and Michelle went to the ice-cream parlor.
$\qquad$
5. The telephone kept ringing.
$\qquad$
6. I wrote a story.
$\qquad$
7. The movie was excellent.
8. Dominique was upset that her friend was ill.

## Writing: Descriptive Details

A writer creates pictures in a reader's mind by telling him/her how something looks, sounds, feels, smells, or tastes. For example, compare $\mathbf{A}$ and $\mathbf{B}$ below. Notice how the description in $\mathbf{B}$ makes you imagine how the heavy door and the cobweb would feel and how the broken glass would look and sound as someone walked on it.
A. I walked into the house.
B. I pushed open the heavy wooden door of the old house. A cobweb brushed my face, and broken glass, sparkling like ice, crackled under my feet.

Directions: Write one or two sentences about each topic below. Add details that will help your reader see, hear, feel, smell, or taste what you are describing.

1. Your favorite dinner cooking
2. Old furniture
$\qquad$
3. Wind blowing in the trees
$\qquad$
4. A tired stranger
$\qquad$
$\qquad$
5. Wearing wet clothes
$\qquad$
$\qquad$
6. A strange noise somewhere in the house

$\qquad$
$\qquad$

## Writing: Descriptive Details

Directions: For each topic sentence below, write three or four supporting sentences. Include details about how things look, sound, smell, taste, or feel. Don'† forget to use adjectives, adverbs, similes, and metaphors.

Example: After my dog had his bath, I couldn'† believe how much better he looked. His fur, which used to be all matted and dirty, was as clean as new snow. He still felt a little damp when I scratched behind his ears. The smell from rolling in our garbage was gone, too. The shampoo made him smell like apples.

1. My little cousin's birthday party was almost over.

$\qquad$
$\qquad$
$\qquad$
2. I always keep my grandpa company while he bakes bread.
$\qquad$
$\qquad$
$\qquad$
3. By the end of our day at the beach, I was a mess.
$\qquad$
$\qquad$
$\qquad$
4. Early morning is the best time to go for a bike ride.

## Personal Narratives

A personal narrative tells about a person's own experiences.
Directions: Read the example of a personal narrative.
Write your answers in complete sentences.

## My Worst Year



When I look back on that year, I can hardly believe that one person could have such terrible luck for a whole year. But then again, I should have realized that if things could begin to go wrong in January, it didn't bode well for the rest of the year.

It was the night of January 26. One of my best friends was celebrating her birthday at the local roller-skating rink, and I had been invited. The evening began well enough with pizza and laughs. I admit I have never been an excellent roller skater, but I could hold my own. After a few minutes of skating, I decided to exit the rink to get a drink of water.

Unfortunately, I did not notice the trailing ribbons of carpet that wrapped around the wheel of my skate, yanking my left leg from under me. My leg was broken. It wasn't just broken in one place but in four places! At the hospital, the doctor set the bone and put a cast on my leg. Three months later, I felt like a new person.

Sadly, the happiness wasn't meant to last. Five short months after the final cast was removed, I fell and broke the same leg again. Not only did it rebreak, but it broke in the same four places! We found out later that it hadn't healed correctly. Three months later, it was early December and the end of a year I did not wish to repeat.

1. List the sequence of events in this personal narrative.
2. From reading the personal narrative, what do you think were the author's feelings toward the events that occurred?

## Personal Narratives

A narrative is a spoken or written account of an actual event. A personal narrative tells about your own experience. It can be written about any event in your life and may be serious or comical.

When writing a personal narrative, remember to use correct sentence structure and punctuation. Include important dates, sights, sounds, smells, tastes, and feelings to give your reader a clear picture of the event.

Directions: Write a personal narrative about an event in your life that was funny.

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## Complete the Story

Directions: Read the beginning of this story. Then, complete the story with your own ideas.

It was a beautiful summer day in June when my family and I set off on vacation. We were headed for Portsmouth, New Hampshire. There, we planned to go on a whale-watching ship and perhaps spy a humpback whale or two. However, there were many miles between our home and Portsmouth.

We camped at many lovely parks along the way
 to New Hampshire. We stayed in the Adirondack Mountains for a few days and then visited the White Mountains of Vermont before crossing into New Hampshire.

My family enjoys tent camping. My dad says you can't really get a taste of the great outdoors in a pop-up camper or RV. I love sitting by the fire at night, gazing at the stars, and listening to the animal noises.

The trip was going well, and everyone was enjoying our vacation. We made it to Portsmouth and were looking forward to the whale-watching adventure. We arrived at the dock a few minutes early. The ocean looked rough, but we had taken seasickness medication. We thought we were prepared for any kind of weather.

## Writing Fiction

Directions: Use descriptive writing to complete each story.
Write at least five sentences.

1. It was a cold, wintry morning in January. Snow had fallen steadily for four days. I was staring out my bedroom window when I saw the bedraggled dog staggering through the snow.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Alyssa was home Saturday studying for a big science test. Report cards were due next Friday, and the test on Monday would be on the report card. Alyssa needed to do well on the test to get an A in Science. The phone rang. It was her best friend, Tierra.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Martin works every weekend delivering newspapers. He wakes up at 5:30 A.M. and begins his route at 6:00 A.M. He delivers 150 newspapers on his bike. He enjoys his weekend job because he is working toward a goal.

## Writing: Point of View

People often have different opinions about the same thing. This is because each of us has a different "point of view." Point of view is the attitude someone has about a particular topic as a result of his or her personal experience or knowledge.

Directions: Read the topic sentence below about the outcome of a basketball game. Then, write two short paragraphs, one from the point of view of a player for the Reds and one from the point of view of a player for the Cowboys. Be sure to give each person's opinion of the outcome of the game.

Topic Sentence: In the last second of the basketball game between the Reds and the Cowboys, the Reds scored and won the game.

Terry, a player for the Reds ... $\qquad$
$\qquad$

Chris, a player for the Cowboys . . . $\qquad$

Directions: Here's a different situation. Read the topic sentence, and then write three short paragraphs from the points of view of Katie, her dad, and her brother.

Topic Sentence: Katie's dog had chewed up another one of her father's shoes.


Katie... $\qquad$

Katie's father . . . $\qquad$

Katie's brother, Mark, who would rather have a cat . . . $\qquad$

## Friendly Letters

A friendly letter has these parts: return address, date, greeting, body, closing, and signature.

Directions: Read this letter. Then, label the parts of the letter.
Dear Blaine,
Hello! I know I haven't written in several weeks, but I've been very busy with school and baseball practice. How have you been? How is the weather in Boston? It is finally getting warm in Boise.
As I mentioned, I am playing baseball this year. My team is called the Rockets, and we are really good. We have a terrific coach. We practice two nights a week and play games on the weekends. Are you playing baseball?
I can hardly wait to visit you this summer. I can't believe I'll be flying on an airplane and staying with you and your family for 2 weeks! There is probably a lot to do in Boston. When you write, tell me some ideas you have for the 2 weeks.
$\longrightarrow$ Your friend,

Envelopes should follow this format:
Mason Fitch
222 West Middle Street
Boise, ID 33444

Blaine Morgan
111 E. 9th Street, Apt 22B
Boston, MA 00011

## Friendly Letters

Directions: Write a friendly letter. Then, address the envelope.


## Writing: Supporting Your Opinion

Directions: Decide what your opinion is on each topic below. Then, write a paragraph supporting your opinion. Begin with a topic sentence that tells the reader what you think. Add details in the next three or four sentences that show why you are right.

Example: Whether kids should listen to music while they do homework
Kids do a better job on their homework if they listen to music. The music makes the time more enjoyable. It also drowns out the sounds of the rest of the family. If things are too quiet while kids do homework, every little sound distracts them.


1. Whether young people should have a choice about going to school, no matter how old they are
$\qquad$
$\qquad$
$\qquad$
2. Whether all parents should give their children the same amount of money for an allowance
$\qquad$
$\qquad$
$\qquad$
3. Whether you should tell someone if you doubt he or she is telling the truth

## Writing from a Prompt: An Opinion Essay

Directions: Write an opinion essay in response to the prompt.
Writing Prompt: Think about rainforests. What is the importance of preserving the rainforests of the world? What problems could arise if there were no longer any rainforest areas? What problems could arise for humans due to the preservation of rainforests?
How do rainforests affect you?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Directions: When you finish writing, reread your essay. Use this checklist to help make corrections.

$\square$
I have used correct spelling, grammar, and punctuation.
$\square$ I have no sentence fragments.
$\square$ My essay makes sense.
$\square$ I wrote complete sentences.

$\square$I have no run-on sentences.
$\square$ I answered the prompt.


## Writing a Summary

A summary is a short description of what a selection or book is about.
Directions: Read the following selection and the example summary.

## Fads of the 1950s

A fad is a practice or an object that becomes very popular for a period of time. Recent popular fads include shaped rubber band bracelets, interactive toy hamsters, and Beanie Babies®. In the 1950s, there were many different fads, including coonskin caps, hula hoops, and 3-D movies.

Coonskin caps were made popular by the weekly television show about Davy Crockett, which began in December of 1954. Not only did Davy's hat itself
 become popular, but anything with Davy Crockett on it was in hot demand.

Also popular were hula hoops. They were produced by the Wham-O company in 1958. The company had seen similar toys in Australia. Hula hoops were priced at $\$ 1.98$, and over 30 million hoops were sold within 6 months.

Another fad was the 3-D movie. When television sets began to appear in every American home, the movie industry began to suffer financially. Movie companies rushed to produce 3-D movies, and movie-goers once more flocked to theaters. The first 3-D movie was shown in Los Angeles on November 26, 1952. People loved the special Polaroid ${ }^{\circledR}$ glasses and scenes in the movie that seemed to jump out at them. As with the hula hoop and Davy Crockett, people soon tired of 3-D movies, and they became old news as they were replaced by new fads.

## Summary

Over the years, many fads have become popular with the American public. During the
1950s, three popular fads were the hula hoop, Davy Crockett, and 3-D movies. Davy Crockett's
coonskin cap became a fad with the beginning of the weekly television show. Hula hoops
were sold by the millions, and 3-D movies were enjoyed by people everywhere. However,
like all fads, interest in these items soon died out.

## Writing a Summary

Directions: Read the following selection. Using page 309 as a guide, write a summary of the selection.

First Flights
In the first few years of the 20th century, most people strongly believed that humans would never be able to fly. However, a few daring individuals worked to prove the public wrong.

On December 8, 1903, Samuel Langley attempted to fly his version of an airplane from the roof of a houseboat on the Potomac River. Langley happened to be the secretary of the Smithsonian Institution, so his flight was covered not only by news reporters but also by government officials. Unfortunately, his trip met with sudden disaster when his aircraft did a nose dive into the river.


Nine days later, brothers Orville and Wilbur Wright attempted a flight. They had assembled their aircraft at their home in Dayton, Ohio, and shipped it to Kitty Hawk, North Carolina. On December 17, the Wright brothers made several flights, the longest one lasting an incredible 59 seconds. Since the Wright brothers had kept their flight attempts secret, their miraculous flight was only reported by two newspapers in the United States.

## Comparing and Contrasting

When writing comparison/contrast essays, it is helpful to write one paragraph which contains all the similarities and another paragraph which contains all the differences.

Directions: Write an essay in response to the prompt.
Writing Prompt: Think of your brother, sister, or a friend. What similarities are there between you and this person? What differences are there?

Directions: When you finish writing, reread your essay. Use this checklist to help make corrections.
$\square$ My essay makes sense.
$\square$ I listed at least two similarities and two differences.

$\square$My sentences are correctly written.

$\square$I used correct spelling, grammar, and punctuation.


## Advantages and Disadvantages

As in the comparison/contrast essay, it is easiest to put all of the advantages in one paragraph and the disadvantages in another paragraph.

Directions: Write an essay in response to the prompt.
Writing Prompt: Think about what a society would be like if all people had the same skin tone, hair color, eye color, height, and weight. What would the benefits of living in such a society be? Would there be any disadvantages? What would they be?

Directions: When you finish writing, reread your essay. Use this checklist to help make corrections.
$\square$ My essay makes sense.

$\square$
I used correct spelling, grammar, and punctuation.

$\square$
I answered the writing prompt.

$\square$
I have varied sentence length.

## Newswriting

Newswriting is a style of writing used by news reporters and other journalists who write for periodicals. Periodicals are newspapers, magazines, and newsletters that are published regularly either as hard copies or digitally.

Magazine and news writers organize their ideas and their writing around what is called "the five W's and the H" - who, what, when, where, why, and how. As they conduct research and interview people for articles, journalists keep these questions in mind.

Directions: Read a news article of your choice. Use the information you read to answer the questions.


Who is involved? $\qquad$
Who is affected?
Who is responsible? $\qquad$
What
What is the event or subject? $\qquad$
What exactly has happened? $\qquad$

When did this happen? $\qquad$
Where did it happen? $\qquad$
Where $\qquad$

Why did it happen? $\qquad$
Why
Why will readers care? $\qquad$
左

How did it happen?

## Newswriting: Inverted Pyramid Style

Reporters organize their news stories in what is called the inverted pyramid style. The inverted pyramid places the most important facts at the beginning of the story-called the lead (LEED)-and the least important facts at the end.

There are two practical reasons for this approach:

1) If the story must be shortened by an editor, he or she can simply cut paragraphs from the end of the story rather than rewriting the entire story.
2) Because so much news and information is available to the public, few people read every word of every story. Instead, many readers skim headlines and opening paragraphs. The inverted pyramid style of writing enables readers to quickly get the basics of what the story is about without reading the entire story.


Directions: Read the news story. Then, answer the questions.
Introducing children to peanuts when they are young helps reduce the risk of peanut allergies, a new study has found.

The study, published in The New England Journal of Medicine, could change doctors' recommendations to parents of young babies and children. Instead of telling parents to avoid peanuts in their children's diets, doctors may now recommend that peanuts be introduced in small amounts at an early age. This frequent and early exposure has been shown to cut the risk of peanut allergies in children.

Peanut allergies have become more common among children in recent years. Peanuts are banned from many schools and daycare centers, in hopes of preventing severe reactions. Peanuts are a delicious and nutritious source of protein. In addition to being used as a sandwich spread, they make a nice addition to dips and smoothies.

1. What is this news story about?
2. Where was the study about peanuts published? $\qquad$
3. How have doctors' views about peanuts changed?
4. Name two groups of people who might be interested in reading this article.
5. What two sentences could you cut from this article if you were an editor?

## Writing: Just the Facts

Some forms of writing, such as reports and essays, contain opinions that are supported by the writer. In other kinds of writing, however, it is important to stick to the facts. News reporters, for example, must use only facts when they write their stories.

Directions: Read the following news story about a fire, and underline the sentences or parts of sentences that are opinions. Then, rewrite the story in your own words, giving only the facts.

At around 10:30 p.m. last night, a fire broke out in a house at 413 Wilshire Boulevard. The house is in a very nice neighborhood, surrounded by beautiful trees. The family of four who lives in the house was alerted by smoke alarms, and they all exited the house safely, although they must have been very frightened. Firefighters arrived on the scene
 at approximately 10:45 p.m., and it took them over 3 hours to extinguish the blaze. The firefighters were very courageous. The cause of the fire has not yet been determined, although faulty electric wiring is suspected. People should have their electric wiring checked regularly. The family is staying with relatives until repairs to their home can be made, and they are probably very anxious to move back into their house.

## Writing: You're the Reporter

Directions: Now, write your own short news story about an interesting event that occurred at your school or in your neighborhood. Find out who and what the story is about, where and when it happened, and why and how it happened. Take some notes, interview some of the people involved, and write your story. Give your story a title, and remember to stick to the facts! In the box, draw a picture (or "photo") to go with your story.
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$\qquad$

## Writing: Personification

Sometimes writers use descriptions such as "The fire engine screamed as it rushed down the street," or "The sun crawled slowly across the sky." We know that fire engines do not really scream, and the sun does not really crawl. Writers use descriptions like these to make their writing more interesting and vivid. When a writer gives an object or animal human qualities, it is called personification.

Directions: For each object below, write a sentence using personification. The first one has been done for you.

1. the barn door


## The old, rusty barn door groaned loudly when I pushed it open.

2. the rain
3. the pickup truck
4. the radiator
5. the leaves
6. the television
7. the kite
8. the river

## Similes

A simile is a comparison of two things that have something in common but are really very different. The words like and as are used in similes.

## Examples:

The baby was as happy as a lark.
She is like a ray of sunshine to my tired eyes.
Directions: Choose a word from the box to complete each comparison. The first one has been done for you.

| tack | grass | fish | mule | ox | rail | hornet |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| monkey |  |  |  |  |  |  |

1. as stubborn as a mule
2. as strong as an
3. swims like a $\qquad$
4. as sharp as a $\qquad$
5. as thin as a $\qquad$
6. as mad as a $\qquad$
7. climbs like a $\qquad$

8. as green as $\qquad$

Directions: Use your own words to complete these similes.
9. as $\qquad$ as a tack
13. as light as a $\qquad$
10. $\qquad$ like a bird
14. as $\qquad$ as honey
11. as hungry as a $\qquad$ 15. $\qquad$ like a snake
12. as white as $\qquad$ 16. as cold as $\qquad$
Directions: Use your own similes to complete these sentences.
17. Our new puppy sounded $\qquad$ .
18. The clouds were $\qquad$ .
19. Our new car is $\qquad$ .
20. The watermelon tasted $\qquad$ .

## Writing: Common Similes

There are many similes that are used often in the English language. For example," as frightened as a mouse" is a very common simile. Can you think of others?

Directions: Match the first part of each common simile to the second part. The first one has been done for you.

| as slippery as |  |
| :--- | :--- |
| as smart as |  |
| as sly as | a mule |
| as still as | a rock |
| as quick as | a bee |
| as slow as | an eel |
| as busy as | a whip |
| as cold as | a furtle |
| as flat as | lightning |
| as stubborn as | ice |
| as hungry as | a bear |



Directions: Write sentences using these common similes.

1. eats like a bird
2. fits like a glove
3. sits there like a bump on a log
4. like a bull in a china shop
5. works like a charm

## Metaphors

A metaphor makes a direct comparison between two unlike things. A noun must be used in the comparison. The words like and as are not used.

## Examples:

Correct: The exuberant puppy was a bundle of energy. Incorrect: The dog is happy. (Happy is an adjective.)

Directions: Circle the two objects being compared.

1. The old truck was a heap of rusty metal.
2. The moon was a silver dollar in the sky.
3. Their vacation was a nightmare.
4. That wasp is a flying menace.
5. The prairie was a carpet of green.
6. The flowers were jewels on stems.
7. This winter, our pond is glass.
8. The clouds were marshmallows.


Directions: Complete the metaphor in each sentence.
9. The ruby was $\qquad$ .
10. The hospital is $\qquad$ .
11. The car was $\qquad$ .
12. This morning when I awoke, I was $\qquad$ .
13. When my brother is grumpy, he is $\qquad$ .
14. Her fingers on the piano keys were $\qquad$ .

## Writing: Similes and Metaphors

Using similes and metaphors to describe things makes writing interesting. Similes are comparisons that use like or as.

Examples: She looked like a frightened mouse. She looked as frightened as a mouse.

Metaphors are direct comparisons that do not use like or as.
Example: She was a frightened mouse.


Directions: Rewrite each sentence two different ways to make it more interesting. In the first sentence (a), add at least one adjective and one adverb. In the second sentence (b), compare something in the sentence to something else, using a simile or metaphor.

Example: The baby cried.
a. The sick baby cried softly all night.
b. The baby cried louder and louder, like a storm gaining strength.

1. The stranger arrived.
a. $\qquad$
b. $\qquad$
2. The dog barked.
a. $\qquad$
b. $\qquad$
3. The children danced.
a. $\qquad$
b. $\qquad$
4. The moon rose.
a. $\qquad$
b. $\qquad$

## Writing: Similes and Metaphors in Poetry

Many poems use similes and metaphors to create a more interesting description of what the poem is about.

Directions: Read the following poems and underline any similes or metaphors you see.

## Flint

An emerald is as green as grass,
A ruby red as blood;


A sapphire shines as blue as heaven;
A flint lies in the mud.
A diamond is a brilliant stone,
To catch the world's desire;
An opal holds a fiery spark;
But a flint holds fire.

## The Night Is a Big Black Cat

The night is a big black cat The moon is her topaz eye,
The stars are the mice she hunts at night, In the field of the sultry sky.
-Christina Rossetti
-G. Orr Clark
Directions: Now, write your own poem, using at least one simile and one metaphor.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Writing: Rhyming Words

Words that share the same vowel sound in their last syllables are rhyming words. Rhyming words can have the same number of syllables, like spike and hike, or different numbers of syllables, like tent and excellent or nation and conversation.

Directions: Write words that rhyme with the words below and have the number of syllables shown. The first one has been done for you.

1. table
2. green
$\qquad$ unable (3)
$\qquad$ (3)
3. instead $\qquad$ (1)
4. store $\qquad$ (2)
5. remember $\qquad$ (3)
6. concentration $\qquad$ (4)

7. stars $\qquad$ (2)
8. giraffe $\qquad$ (1)
9. neighbor $\qquad$ (2)
10. berry $\qquad$ (4)
11. vein $\qquad$ (3)
12. bath $\qquad$ (1)
13. celebration $\qquad$ (4)
14. master $\qquad$ (2)
15. baby $\qquad$ (2)

## Writing: Poetry

Directions: For the first group of poems below, both lines should rhyme. The first line is given. Complete each poem, using one of the given rhyming words, or use one of your own. Make sure to add the correct punctuation.
Example: mile
Dylan James has a certain style.
pile

## To get his way, he'd walk a mile.

ape Mindy Lou got a very bad scrape! grape cape
hide Sometimes you have to swallow your pride.
fried
cried

Directions: Complete these poems, using one of the given words, or use one of your own. Each poem should have four lines. The second and fourth lines should rhyme.
Example: cape Kenny skidded on his bike.
tape And got himself all scraped.
grape Now his bike has a flat tire, And his whole leg is taped.

I I put some water in a bucke $\dagger$
cry And then threw in some dye.

my
file Kelly got her hair cut,
dial But I don't like the style.
Nile
ride When Billy Joe didn't win the race,
hide It really hurt his pride.
cried

## Haiku

Haiku is a form of unrhymed Japanese poetry. Haiku have three lines. The first line has five syllables, the second line has seven syllables, and the third line has five syllables.

Example:


## The Fall

Leaves fall from the trees. Do they want to leave their home? They float on the breeze.

Directions: Write a haiku about nature. Write the title on the first line. Then, illustrate your haiku.

## Nature

$\qquad$

## Lantern

Lantern is another type of five-line Japanese poetry. It takes the shape of a Japanese lantern. Each line must contain the following number of syllables.

Line 1: 1 syllable
Line 2: 2 syllables
Line 3: 3 syllables
Line 4: 4 syllables
Line 5: 1 syllable


Example:
Cats-
Stealthy
wild creatures
want to be your pet.

Directions: Write and illustrate your own lantern.

## Alliterative Poetry

Alliteration is the repetition of a consonant sound in a group of words.
Example: Barney Bear bounced a ball.
Alliterative story poems can be fun to read and write. Any of several rhyming patterns can be used. Possibilities include:

Every two lines rhyme.
Every other line rhymes.
The first line rhymes with the last line, and the two middle lines rhyme with each other. All four lines rhyme.

## Example:

Thomas Tuttle tries to dine, On turkey, tea, and treats so fine. Thomas eats tomatoes and tortellini, He devours tuna and tettrazini.

When tempting tidbits fill the table, Thomas tastes as much as he is able, He stuffs himself from top to toes, Where he puts it, goodness knows!


Directions: Write an alliterative story poem using any rhyming pattern listed above. Your poem should be at least four lines long.

## How to Write a Book Report

Writing a book report should not be a chore. Instead, consider it an opportunity to recommend a book you have enjoyed. Simply writing, "I really liked this book. You will, too!" is not enough. You need to explain what makes the book worth reading.
Like other essays, book reports have three parts. An essay is a short report that presents the personal views of the writer. The three parts of an essay (and a book report) are introduction, body, and conclusion.

The introduction to a book report should be a full paragraph that will capture the interest of your readers. The body paragraphs contain the main substance of your report. Include a brief overview of the plot of your book, along with supporting details that make it interesting. In the conclusion, summarize the central ideas of your report. Sum up why you would or would not recommend it to others.

Directions: Answer these questions about writing book reports.

1. Which of these introductory sentences is more interesting?

$\square$Brian, a thirteen-year-old boy, must survive in the Canadian wilderness after his plane crashes.
$\square$ Hatchet is an interesting book about survival and the wilderness.
2. In a report on a fiction book about a teenage survivor of a plane crash, where would these sentences go?
"Brian is flying in a plane to visit his father when the plane's pilot dies unexpectedly of a heart attack."
$\square$ introduction
$\square$ conclusion
3. In the same report, where would these sentences go?
"Author Gary Paulsen has written an exciting adventure story about a boy's patience and courage as he survives alone for two months in the wilderness. I strongly recommend the book to people of all ages."
$\square$ bodyconclusion

## Book Report: A Book I Devoured

Directions: Follow the writing prompts to write a short book report on a book you truly enjoyed.

Recently, I read a book I could not put down.
Its title is
One reason I "devoured" this book was $\qquad$
$\qquad$
$\qquad$
If I could be one of the characters, I'd be because

My favorite part of the story was when
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Book Report: Comparing Two Books

Directions: Follow the writing prompts to write a short book report comparing two books on the same subject.

Two books I recently read on the same subject
are $\qquad$
by $\qquad$
and $\qquad$
by
I liked $\qquad$ better because

The best part of this book was when
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Even though I did not like it as well, one good thing I can say about the other book is

## Reference Sources: Languages, Social Studies

Reference sources are books and other materials that provide facts and information. Dictionaries, encyclopedias, and nonfiction books are reference books. Magazine and newspaper articles, the Internet, and computer CDs are also reference sources.

There are many other kinds of reference sources on specific topics. Some of these are listed below by the topics covered.

Language:

1. The American Heritage Dictionary
2. Dictionary of American Idioms by Adam Makkai
3. Math Dictionary for Kids by Theresa Fitzgerald
4. Oxford Dictionary of Foreign Words and Phrases by Andrew Delahunty
5. Scholastic Children's Thesaurus


Social Studies:

1. Book of Black Heroes from A to $Z$ by Wade Hudson and Valerie Wilson Wesley
2. If You Lived When Women Won Their Rights by Anne Kamma
3. Understanding Myself: A Kid's Guide to Intense Emotions and Strong Feelings by Mary C. Lamia
4. Merriam Webster's Geographical Dictionary

Directions: Answer the questions.

1. Which book would be the best source for finding the meaning of the Spanish term, que pasa?
2. Which book would be the best source of information on Martin Luther King, Jr.?
3. Where would you find information on the average yearly rainfall in the Amazon?
4. Which book would have information on women getting the right to vote?
5. Where would you look for a list of terms that mean the same as incredible?

# Reference Sources: General, Science, and Technology 

These reference sources are listed by the topics covered.
General:

1. How Things Work Encyclopedia
2. Children's Encyclopedia of American History
3. World Book Encyclopedia Kids (online subscription)
4. National Geographic Student World Atlas
5. United States Census Bureau website (www.census.gov)

Science and Technology:

1. A Field Guide to Rocks and Minerals by Frederick H. Pough

2. Encyclopedia of Animals
3. National Wildlife Federation Field Guide to Trees of North America
4. The Universe (Discovery Kids)
5. The Complete Human Body (book and DVD-ROM) by Dr. Alice Roberts

Directions: Answer the questions.

1. Which reference source would you check to find a map of Poland?
2. Which source would you consult to find the most recent statistics on the number of single parents in the United States?
3. Where would you find the most complete information on the Milky Way and other galaxies?
$\qquad$
4. Where would you find the most complete information about a rock crystal called quartz?
5. Where would you find the most complete information on the Boston Tea Party?

## Using the Library Catalog

Directions: Read about library catalogs. Use this information to answer the questions on the next page.

A library catalog is a digital listing of all the books, DVDs, CDs, etc. in the library's collection. Most libraries offer many search options. The most common ways to search are by title, author, subject, or keyword. If you don't find the book you are looking for at first, you may find it by changing your search. For example, if you can't find a book by title, try doing a keyword search using only one or two main words from the title.


## Using the Library Catalog

The call number for a book is printed on its spine and also appears in the library catalog. Nonfiction books are shelved in order by call number.

Directions: Use what you learned about library catalogs to answer these questions.

1. What should you type into a library's computerized catalog for a listing of all the books the library has on birds?
2. What should you type into the library's catalog for a list of all the books by Louisa May Alcott?
3. What should you type into the library's catalog to see if the library owns a book called Birds of North America?
4. According to the catalog entry shown on the previous page, what company published the book Unusual Creatures?
5. Under what subject is Unusual Creatures listed?
6. What is the call number for Unusual Creatures?
7. What are three ways to find a book in the library? $\qquad$
8. If you don't find the book you were looking for after your first catalog search, what else can you try?
$\qquad$
$\qquad$
9. Besides the call number, title, and author, what are three other types of information given for a book in a library catalog?


## Research

Directions: Read about doing research. Then, answer the questions.
Step 1: Look in a general online encyclopedia, such as Encyclopedia Britannica Kids or Fact Monster (which uses the Columbia Encyclopedia), for background information on your topic. Check for a bibliography at the end of the article for clues to other sources. A bibliography lists all the books and magazines used to write the article.
Step 2: Use a special encyclopedia for more specific information or for definitions of special terms. How Things Work Encyclopedia, Children's Encyclopedia of American History, and Human Body: A Visual Encyclopedia are examples of special encyclopedias.

Step 3: Look for a general book on your topic using the subject headings in the library catalog. Be sure to note the copyright date (date published) on all books you select. For current topics, such as medical research or computers, you will want to use only the most recently published and up-to-date sources. You will be most likely to find these using online resources.

Step 4: When using the Internet to research a topic, be sure to use only trustworthy, reliable sites. Choose sites that are run by companies, schools, or organizations you've heard of, such as NASA, the Smithsonian Institution, National Geographic Kids, Time Magazine, PBS, or the National Gallery of Art. If you're not sure whether a site is reliable, ask a parent or a teacher.

1. Name two general encyclopedias. $\qquad$
$\qquad$
2. Name three special encyclopedias. $\qquad$
$\qquad$
3. How can you tell whether a website contains trustworthy, reliable information?

## Research

Directions: Read the following questions. Use the Internet or library resources to answer them.

1. Choose two figures from history. Research them on www.biography.com. Write two facts you found about each person.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Use a resource book or online search to find out during what period the dinosaur Diplodocus lived.
$\qquad$
3. What were the last three winners of the Newbery Award for best children's books?
$\qquad$
4. Name three types of mollusks. List the source of your information.
5. Visit the site www.libraryspot.com. Write three questions that a classmate could answer by using this site.
$\qquad$
$\qquad$
$\qquad$
6. Use a library catalog to search for books about ancient Egypt. List the titles and call numbers of three books you find.
$\qquad$
$\qquad$
$\qquad$

## Research

Directions: Read the following questions. Use the Internet or library resources to answer them.

1. Use a print or online children's almanac to find two facts about the weather or weather-related events.

$\qquad$
$\qquad$
2. What is the world's tallest building? How tall is it?
$\qquad$
3. List two sources you could use to find current information about global warming.
$\qquad$
$\qquad$
4. Use a print or online atlas to find out what African countries and what body of water border Namibia.
$\qquad$
5. Use an online encyclopedia to research the Chinese New Year. Briefly describe what it is below.
$\qquad$
$\qquad$
$\qquad$
6. How are hurricanes named? What source did you use to find the answer?

## Fiction, Nonfiction, and Biographies

Fiction books are stories that are not based on facts or real events. They are based on the imagination of the author.

Examples: picture book stories and novels
Nonfiction books are about facts or events that actually occurred.
Examples: reference books and history books


Biographies are written about a person's life. They are based on true events. Biographies have been written about Presidents and First Ladies, as well as other people.

Directions: Use your library to answer the following questions.

1. What are the titles and authors of three fiction books? $\qquad$
$\qquad$
$\qquad$
2. What are the titles and authors of three nonfiction books? $\qquad$
$\qquad$
$\qquad$
3. What are the call numbers of the three nonfiction books you listed? $\qquad$
$\qquad$

Directions: Use the library catalog to locate two biographies of each of the people listed Write the titles, authors, and call numbers.
4. Abraham Lincoln $\qquad$
5. George Washington Carver $\qquad$
6. John F. Kennedy $\qquad$
7. Princess Diana $\qquad$
8. Pocahontas $\qquad$

## Book Search: Fiction

留
Have you ever been on a scavenger hunt? Usually, when you go on a scavenger hunt, you need to find unusual items on a list. This scavenger hunt will take place at your library. Instead of finding unusual items, you will need to find books.

Directions: Find these books at your library. They will be in alphabetical order by the author's last name in the picture book section of the children's department. Then, answer the questions.

## Author: Margaret Wise Brown

Title: Goodnight Moon

1. Where is the cow jumping over the moon? $\qquad$
2. What is the old lady whispering? $\qquad$
3. How many kittens are in the story? $\qquad$
Author: Audrey Wood Title: Napping House
4. In the beginning, what is everyone in the house doing?
5. What kind of flea is in this story? $\qquad$
6. What breaks at the end of the story? $\qquad$
Author: Mo Willems
7. Who is Knuffle Bunny?

Title: Knuffle Bunny: A Cautionary Tale
8. How does Trixie explain her problem to her father?
$\qquad$
$\qquad$
9. How does the story end?

$\qquad$

## Book Search: Nonfiction

Directions: Look in your library catalog to find the types of nonfiction books listed. Then, go to the shelf in the nonfiction section, and locate the books. Write the information requested for each book.

A book about gorillas
Title: $\qquad$
Author: $\qquad$
Call number: $\qquad$
First sentence in book: $\qquad$
A book about the solar system
Title: $\qquad$
Author: $\qquad$
Call number: $\qquad$
Last sentence in book: $\qquad$
A book about baseball
Title: $\qquad$
Author: $\qquad$
Call number: $\qquad$
Color of book's cover: $\qquad$
A book about flowers
Title: $\qquad$
Author: $\qquad$
Call number: $\qquad$
Name of a flower pictured in book: $\qquad$

## Book Search: Biographies

Biographies may be located in the 920 section in your library or may be filed by call number according to subject.

Directions: Use the library catalog and the actual books to answer these questions.

1. How many books can you find about Elizabeth Blackwell?

2. What is the title of one of the books?
3. How many books can you find about Kareem Abdul-Jabar?
4. What are the titles, authors, and call numbers of three books about George Washington?
$\qquad$
$\qquad$
$\qquad$
5. What are the titles, authors, and call numbers of three books about Martin Luther King, Jr.?
$\qquad$
$\qquad$
$\qquad$
6. What are the titles, authors, and call numbers of three books about Eleanor Roosevelt?
$\qquad$
$\qquad$
$\qquad$
7. What are the titles, authors, and call numbers of three books about Marie Curie?

## Reports: Choosing a Topic

Directions: Read about how to write a report. Then, answer the questions.
A report is a written paper based on the writer's research. It is logically organized and, if it is a good report, presents information in an interesting way. Reports can focus on many different topics. A social studies report may provide information about a city or state. A science report may explain why the oceans are polluted.

If possible, choose a topic you're interested in. Sometimes a teacher assigns a general topic to the whole class, such as the solar system. This is a very broad topic, so you must first narrow it to a smaller topic about which you can write an interesting four- or five-page report. For example, your report could be on "The Sun, the Center of the Solar System" or "Jupiter, the Jumbo Planet."

A narrower topic gives your paper a better focus. Be careful not to make your topic too narrow, because then you may not be able to find much information about it for your report.

The inverted pyramid on the right shows how to narrow your topic from the general, at the top of the pyramid, to the specific, at the bottom.


Directions: Select a topic for a paper you will write. You may choose one of these topics or select one of your own. Then, answer the questions.

| American wars | Games | Presidents | States |
| :--- | :--- | :--- | :--- |
| Famous American women | Solar system | Sports heroes | Ecology |

1. What is a report? $\qquad$
2. Which general topic did you choose? $\qquad$
3. What specific topic will you write about? $\qquad$

## Reports: Doing Research

Directions: Review the information on pages 333-335 about doing library research. Then, read about how to do research for a report, and answer the questions.

Before starting your report, locate the most likely places to find relevant information for your research. Ask the librarian for help if necessary. A good report will be based on at least three or four sources, so it's important to find references that provide varied information.

Is the topic a standard one, such as a report on the skeletal system? A children's encyclopedia of the human body is a good place to begin your research. You may also want to look online for some children's websites about the body and how it works.

Does your report require current statistics and/or facts? Specific websites will probably be your best source for information. For example, if you want to know the current population of various endangered animals, you could visit the World Wildlife Fund site. Be sure to use sites that are credible and reliable. If you are not sure whether a site is reliable, ask a parent or teacher.

For current magazine articles, see if your school has a membership to the Reader's Guide to Periodical Literature, which lists the names and page numbers of magazine articles related to a variety of topics. If you need geographical information about a country, check an atlas such as the National Geographic Student World Atlas.

1. How many reference sources should you consult before writing your report? $\qquad$
2. What are two references that provide statistics and facts? $\qquad$
$\qquad$
3. Where will you find a listing of magazine articles? $\qquad$
$\qquad$
4. Where should you look for geographical information? $\qquad$
5. If you're stumped or don't know where to begin, who can help? $\qquad$

## Reports: Taking Notes

Directions: Read about taking notes for your report. Use the "index card" below to write a sample note from one of your reference sources.

When gathering information for a report, it is necessary to take notes. You'll need to take notes when you read encyclopedia entries, books, and magazine or news articles related to your topic.

Before you begin gathering information for a report, organize your thoughts around the who, what, when, where, why, and how questions of your topic. This organized approach will help direct you to the references that best answer these questions. It will also help you select and write in your notes only useful information.

There are different ways of taking notes. Some people use notebook paper. If you write on notebook paper, put a heading on each page. Write only notes related to each heading on specific pages. Otherwise, your notes will be disorganized, and it will be difficult to begin writing your paper.

Many people prefer to put their notes on index cards. Index cards can be easily sorted and organized when you begin writing your report and are helpful when preparing an outline. If you use index cards for your notes, put one fact on each card.

Take several notes from each reference source you use. Having too many notes is better than not having enough information when you start to write your report.

## Encyclopedia Skills: Taking Notes

A biography is a written report of a person's life. It is based on facts and actual events. To prepare to write a biographical essay, you could look up information about the person in a biographical or online encyclopedia.

Directions: Select one of the people listed below. Read about that person in an encyclopedia. Take notes to prepare for writing a biographical essay. Then, use your notes to answer the questions.

| Babe Ruth | Ben Carson |
| :--- | :--- |
| Mikhail Baryshnikov | Steve Jobs |
| Jane Goodall | Woodrow Wilson |
| Jesse Owens | Charles Darwin |
| J.K. Rowling | Marie Curie |

## My Notes:



1. Where and when was he or she born? $\qquad$
2. If deceased, when did the person die? $\qquad$
3. When and why did he or she first become famous? $\qquad$
$\qquad$
$\qquad$
4. What are some important points about this person's career?

## Reports: Making an Outline

An outline will help you organize your ideas before you begin writing your report.

## Title

I. First Main Idea
A. A supporting idea or fact
B. Another supporting idea or fact

1. An example or related fact
2. An example or related fact
II. Second Main Idea
A. A supporting idea or fac $\dagger$
B. Another supporting idea or fact
III. Third Main Idea
A. A supporting idea or fact
B. Another supporting idea or fact


Directions: Use information from your notes to write an outline for your report. Follow the above format, but expand your outline to include as many main ideas, facts, and examples as necessary.

## Reports: Writing the Paper

Directions: Read more about writing a report. Then, write your report.
Before you begin, be certain you clearly understand what is expected. How long should your report be? Must it be typed? Can it be written in pen? Should it be double-spaced?

Begin the first draft of your report with a general introduction of your topic. In the introduction, briefly mention the main points you will write about. One paragraph is usually enough to introduce your paper.

Next, comes the body of your report. Start a new paragraph for each main point. Include information that supports that point. If you are writing a long report, you may need to write a new paragraph for each supporting idea and/or each example. Follow your outline to be certain you cover all points. Depending on the number of words required to cover your topic, the body of the report will be anywhere from three or four paragraphs to several pages long.

In one or two concluding paragraphs, briefly summarize the main points you wrote about in the body of the report, and state any conclusions you have drawn as a result of your research.

Once you finish the first draft, you will need to edit and rewrite your report to make it read smoothly and correct errors. You may need to rewrite your report more than once to make it the best it can be.

If possible, put the report aside for a day or two before you rewrite it so you can look at it with fresh eyes and a clear mind. Professional writers often write several drafts, so don't be discouraged about rewrites! Rewriting and editing are the keys to good writing-keys that every writer, no matter how old or experienced, relies on.

Directions: Circle the words in the puzzle related to writing a report.

| K | K | N | K | T | O | P | I | C | D | T | B |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| L | D | O | B | T | T | O | D | P | T | D | O |
| I | N | T | R | O | D | U | C | T | I | O | N |
| E | N | E | R | G | D | E | E | O | O | O | N |
| D | W | S | R | G | E | Y | C | P | C | X | R |
| S | A | F | E | A | T | T | E | I | E | Y | O |
| R | W | A | Q | U | B | W | P | C | D | G | F |
| L | I | C | O | N | C | L | U | S | I | O | N |
| O | U | T | L | I | N | E | U | T | T | E | D |
| R | E | S | E | A | R | C | H | R | E | S | E |


| topic |
| :--- |
| facts |
| outline |
| introduction |
| body |
| conclusion |
| notes |
| research |
| edit |



## Review

1. Why should you narrow your topic when writing a report?

$\square$
So you can include specific, relevant information

$\square$
So you can write a short paper

$\square$So you can use only one reference book
2. Which of the following is not a reference book?

$\square$
The American Heritage Children's Thesaurus

$\square$National Geographic Student World AtlasFlowers for Cosmo

$\square$
How Things Work Encyclopedia
3. Writing an outline for your report will help you

$\square$narrow your topic.gather many notes.get organized and follow a plan.

$\square$broaden your topic.
4. Which of the following is not a part of a finished report?


IntroductionConclusion

$\square$
Body

$\square$
Outline
5. When taking notes, index cards will help you

$\square$check spelling, grammar, and punctuation.

$\square$organize your writing later.

$\square$find things quickly on the shelves.

$\square$transfer facts to your notebook.


## Editing

To edit means to revise and correct written work. Learning how to edit your work will help you become a better writer. First you should write a rough draft of your paper, and then edit it to make it better. Remember these things when writing your rough draft:
Do not overcrowd your page. Leave space between every line and at the sides of your pages to make notes and changes.
Write so you can read it. Don'† be sloppy just because you're only writing a rough draft.
Number your pages. This will help you keep everything in order.
Write on only one side of the page. This gives you plenty of space if you want to make changes or add information between paragraphs.
Use the same size notebook paper for all drafts. If all pages are the same size, you're less likely to lose any.

Before turning in your report or paper, ask yourself these questions:
Have I followed my outline?
Have I told who, what, when, where, why, and how?
Have I provided too much information? (Good writers are concise. Don'† repeat yourself after you have made a point.)
Do I still have unanswered questions? (If you have questions, you can bet your readers will also. Add the missing information.)

It is always a good idea to let a day or so pass before rereading your paper and making final corrections. That way you will see what you actually wrote, instead of what you think you wrote.

When you edit your work, look for:
Correct grammar.
Correct spelling. Use the dictionary if you are not 100 percent sure.
Correct punctuation.
Complete sentences. Each should contain a complete thought.
Directions: Answer these questions about editing by writing $\mathbf{T}$ for true or $\mathbf{F}$ for false.
__ 1. When you are editing, you should look for correct grammar and spelling.
__ 2. Editors do not look for complete sentences.
__ 3. Editors do not have to read each word of a story.
$\qquad$ 4. It is best to use both sides of a sheet of paper when writing the rough draft of your report.
5. It does not matter how neat your first draft is.
6. Editors make sure that sentences are punctuated correctly.

## Editing

Editors and proofreaders use certain marks to note the changes that need to be made. In addition to circling spelling errors and fixing capitalization mistakes, editors and proofreaders also use the following marks to indicate other mistakes that need to be corrected.

| thed Delete. | $\hat{\wedge}$ | Insert a comma. | $\stackrel{\text { is }}{ }$ | Insert a word. |
| :---: | :---: | :---: | :---: | :---: |
| a ${ }^{\text {nt }}$ Remove the space. | v | Insert an apostrophe. | $\bigcirc$ | Insert a period. |
| $\underset{\text { Inthis }}{\text { \# }}$ Insert a space. | v | Insert quotation marks. | sara | Capitalize. |

Directions: Use editing marks to correct the errors in these sentences. Then, write the sentences correctly on the lines.

1. Mr. Ramsey was a man who liked to do nothing
2. Lili a young hawaiian girl, liked to swim in the sea.
3. Youngsters who play baseballalways have a favorite player.
4. Too many people said, That movie was terrible."
5. I didn't wantto go to the movie with jaden
6. Prince charles has two adult sons
7. The little boy's name was albert leonard longfellow

## Editing

Directions: Use editing marks to show the changes that need to be made in the following sentences.

1. billy bob branstool was was the biggest bully at our school
2. mr. Ling told my mother that i was a good student
3. I heard your mom say, "give your mother a kiss.
4. david and justin liked reading about dinosaurs especially tyrannosaurus rex.
5. milton said to to mabel "maybe we can play tomorrow."
6. ana and Liam knew the answers to the questions but they would not raise hands
7. too many people were going to see the movie so we decided to go get pizza instead
8. tillie's aunt teresa was coming to visit for the month of may
9. we lived in a small town called sophia, north carolina, for 20 days before we decided to move away.
10. we saw the mother fox bringing food to her cubs in the den
11. i was reading the book called, haunting at midnight.
12. kevin and i decided that we would be detective bob and detective joe.
13. there were thirteen questions on the test. kevin missed all but the first one
14. thirty of us were going on a fieldtrip when suddenly the teachertold the bus driver to turn around.

## Editing

not is,
wanlut
IIThat was when Peter began talking. with you. The movie we went to see was good.

There were no people there. $\rightarrow$ Jason thought we should go.

Flip the words around; transpose.
Flip letters around; transpose.
Indent the paragraph or start a new paragraph. Move text down to line below.

Move text up to line above.

Directions: Use editing marks to edit this story.

## The Fallen Log

There was once a log on the floor of a very damp and eerie forest two men came upon the log and sat down for a rest. these two men, leroy and larry, did not know that someone could hear every word they said. "I'm so tired, moaned larry, as he began unlacing his heavy hikingboots. "and my feet hurt, too."
"Quit complaining" friend his said. We've got miles to walk before we'll find the cave with the hidden treasure. besides, if you think you're tired at look feet my. with that he kicked off his tennis shoe and discovered a very red big toe. "i think i won't be able to go any farther.
"Sh-h-h, already!" the two men heard a voice. "enough about feet, enough!" Larry and Leroy began loking around them. theycouldn't see anyone, though. "I'm in hree the voice said hoarsely.


## Editing

Directions: Use editing marks to edit the continuing story of Larry and Leroy.

## Larry and Leroy

larry and leroy jumped up from the log as soon as they realized that they were sitting on something that had a voice. "Hey, that was fast, said the voice. "How did you figure out where i was?"

By this time larry and leroy felt a little silly. Theycertainly didn't want to talk to a log. they looked at each other and then back at the log again. together they turned around and started walking down the path that had brought them to this point in the forest. "Hey were are you going?" the voice called.
"Well, i-i-i don'† know," Larry replied, wondering if he sould be answering a log. "Who are you?"
"I'm a tiny elf who has been lostin this tree foryears," said the voice.

"Sure you are," replied larr. with that he and Iroy began running for their lives.

## Editing

Directions: Draw a line from the editing mark on the left to its meaning on the right.
copmlain
The two boys came to class.)
The girls, though,

IThis is the best pie ever.
this
copyeditor
We went (zoo to the,
Therefwere two of us in the house.

Once upon a time there were
leonardo da $\overline{\underline{\underline{v}}}$ inci
thfomas was the best.

The two girls came to class. The two boys never came back until the principal left.

Now, I will end the story $\odot$
was
My mother the best lady I know
This is my mothers hat.

Close up a word.

Insert an apostrophe.

Insert a comma.

Delete a word.

Transpose words.

Transpose letters.

Insert a space.

Capitalize.

Move text down to line below.

Change letter to lower case.

Start a new paragraph.

Move text up to line above.

Insert a period.

Insert a word.

## Review

Directions: Use editing marks to edit the story. Also watch for and change: Important details that may have been left out. Places where the wording could be livelier. Information that is not related to the story.


My friend Annie and I decided to go windsurfing one day. We gathered up our equipment-our windsuring boards and sails—and headed down to the lake. The air was coolthat day so annie and I didn'† wear our bathing suits. we were just in cut-off shorts and t-shirts.

Ittook us a few minutes to get our windsails puttogether. Thiswas the first time Annie and I had ever did this alone. Usually ourbig brothers helped us. They had to be in school, though, and and annie and I don't so we decidedto try the sport alone.

Annie's smile was ok. But I was glad the sun was shining brighty.It made it feel like it was warming outside than it really was. "Are you sure we should do this?" saic annie, just as I was pulling my windsurf board down to the water. "It will be fine, I assured her. I had gum in my mouth.

I put my toe into the lake.
"Wow is it cold!" I yelled back to Annie. She pulled her windsurf board down beside mine. Hers was orange, blue and yellow. Mine was just purple and green. I finally got inot the water with my board Annie was right beside me. We got onto our boards and finally, both of us were standing up. But our windsails wouldn' $\dagger$ move. Then Annie and I realized there was no wind that day!

## Proofreading

Proofreading, or "proofing," means to carefully look over what has been written, checking for spelling, grammar, punctuation, and other errors. All good writers carefully proofread and correct their own work before turning it into an editor-or a teacher.

Here are three common proofreading marks:
Correct spelling dog
Replace with lower case letter $\mathcal{A}$
Replace with capital letter


Directions: Carefully read the following paragraphs. Use proofreading marks to mark errors in the second paragraph. Correct all errors. The first sentence has been done for you.
alarm
A six-alurm fire at $2121 \underline{\underline{\underline{w}}}$ indsor Terrace on the northeast side awoke apartment Residents at 3 A.M. yesterday morning. Elven people were in the biulding. No one was hurt in the blase, which caused $\$ 200,000$ of property damage.


Proporty manager Jim Polaski credits a perfectly Functioning smoke alurm system for waking residents so they could get out safely. A springkler system were also in plase. "There was No panick," Polaski said proudly. "Everone was calm and Orderly."

## Proofreading

Directions: Proofread the news article. Mark and correct the 20 errors in capitalization and spelling.

## Be Wise When Buying a Car

Each year, about five percent of the U.S. popalation buys a new car, acording to J.D. Link and Associates, a New York-based auto industry reseerch company.
"A new car is the second most expenseve purchase most people Ever make," says Link. "it's amazing how litle reseerch people do before they enter the car showroom."

Link says reseerch is the most impotant Thing a new car buyer can do to pertect himself or herself. That way, he or she wil get the Best car at the best price.
"the salespeople are not trying to get You the best deal," says Link. "they're trying to get themselves the best deal. Bee smart! Read up on new cars online and in magazines like Car and Driver and motortrend before you talk to a saleperson!"

NEW MODELS


## Editing: Check Your Proofreading Skills

Directions: Read about the things you should remember when you are revising your writing. Then, follow the instructions to revise the paper below.

After you have finished writing your rough draft, you should reread it later to determine what changes you need to make to ensure it's the best possible paper you are capable of writing.

Ask yourself the following questions:

## Does my paper stick to the topic? <br> Have I left out any important details? <br> Can I make the writing more lively? <br> Have I made errors in spelling, punctuation, or capitalization? <br> Is there any information that should be left out?

Directions: Revise the following story by making changes to correct spelling, punctuation, and capitalization; add details; and cross out words or sentences that do not stick to the topic.

## Hunting for Treasure

No one really believes me when I tell them that I'm a treasure hunter. But really i am. It isn't just any treasure that I like to hunt, though. I like treasures related to coins. Usually when I go treasure huting I go alone. I always wear my blue coat.

One day my good friend Jesse wanted to come with me. Why would you want to do that?" I said, "Because I like coins, too," he replied. What Jesse did not know was that the Coins that I dig to find are not the coins that just anyone collects.

The coins i like are special. They are coins that have been buried in dirt for years!


## Ancient Egypt

Have you ever wished you could visit Egypt for a first-hand look at the pyramids and ancient mummies? For most people,learning about Egypt is the closest they will come to visiting these ancient sites.

Directions: Test your knowledge about Egypt by writing as many of the answers as you can.

1. Write a paragraph describing what you already know about Egypt.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. Name at least two famous Egyptian kings or queens. $\qquad$
$\qquad$
3. What was the purpose of a pyramid?
$\qquad$
$\qquad$
$\qquad$
4. What was the purpose of mummification? $\qquad$
$\qquad$
$\qquad$
$\qquad$
5. What major river runs through Egypt?

## Taking Notes: Egyptian Mummies

Taking notes is the process of writing important points to remember, such as taking notes on material prepared by your teacher, what is discussed in class, or an article you read. Taking notes is useful when preparing for a test or when writing a report. When taking notes, follow these steps:

1. Read the article carefully.
2. Select one or two important points from each paragraph.
3. Write your notes in your own words.
4. Reread your notes to be sure you understand what you have written.
5. Abbreviate words to save time.


Directions: Read about Egyptian mummies. Select one or two important points from each paragraph. Write your notes in your own words.

After the Egyptians discovered that bodies buried in the hot, dry sand of the desert became mummified, they began searching for ways to improve the mummification process. The use of natron became a vital part of embalming.

Natron is a type of white powdery salt found in oases throughout Egypt. An oasis is a place in the desert where underground water rises to the surface. This water contains many types of salts, including table salt. It also contained natron. As the water evaporated in the hot sun of the desert, the salts were left behind. Natron was then collected for use in the mummification process.

The body was dried in natron for up to 40 days. The natron caused the body to shrink and the skin to become leathery. For thousands of years, natron was a vital ingredient in preserving the bodies of kings, queens, and other wealthy Egyptian citizens.

## Sample notes:

# Paragraph 1 Bodies buried in hot dry sand became mummified. Natron is vital for embalming. 

Paragraph 2 $\qquad$
$\qquad$
Paragraph 3 $\qquad$
$\qquad$

## Outlining

Outlining is a way to organize information before you write an essay or informational paragraph. Outlining helps you understand the information you read.

This sample form will help you get started. When outlining, you can add more main points, more smaller points, and/or more examples.

Title
I. First Main Idea
A. A smaller idea

1. An example
2. An example
B. Another smaller idea
II. Second Main Idea
A. A smaller idea
B. Another smaller idea
3. An example
4. An example
III. Third Main Idea
A. A smaller idea
B. A smaller idea


Directions: Read about building pyramids. Then, complete the outline on the next page.
The process of building pyramids began as a way to honor a king or queen. Since the Egyptians believed in an afterlife, they thought it only fitting for their kings and queens to have elaborate burial tombs filled with treasures to enjoy in the afterlife. Thus, the idea of the pyramid was born.

At first, pyramids were not built as they are known today. In the early stages of the Egyptian dynasty, kings were entombed in a mastaba. Mastabas were tombs made of mud-dried bricks. They formed a rectangular tomb with angled sides and a flat roof.

Later, as the Egyptian kingdom became more powerful, kings felt they needed grander tombs. The step pyramid was developed. These pyramids were made of stone, rather than mud, and were much taller. A large mastaba was built on the ground. Then, four more mastabas (each smaller than the previous) were stacked on top.

Finally, the pyramids took the shape that is familiar today. They were constructed with a flat bottom and four slanting sides that ascended to a final point. One of the tallest is over 400 feet high. These pyramids were also built of stone and were finished with an exterior of white limestone.

## Outlining: Egyptian Pyramids

Directions: Complete the outline. Then, answer the question.

> (title)
I. Mastabas

A. $\qquad$
B. $\qquad$
C. $\qquad$
II. Step pyramids
A. $\qquad$
B. $\qquad$
C. $\qquad$
III. Pyramids
A. $\qquad$
B. $\qquad$
C. $\qquad$

What do you find is the most interesting aspect about the pyramids of ancient Egypt? Why?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Summarizing

A summary includes the main points from an article, book, or speech.

## Example:

Tomb robbing was an important business in ancient Egypt. Often, entire families participated in the plunder of tombs. These robbers may have been laborers, officials, tomb architects, or guards, but they all probably had one thing in common. They were involved in the building or designing of the tomb, or they wouldn't have had the knowledge necessary to successfully rob the burial sites. Not only did tomb robbing ensure a rich life for the robbers, but it also enabled them to be buried with many riches themselves.

## Summary:

Tomb robbing occurred in ancient Egypt. The robbers stole riches to use in their present lives or in their burials. Tomb robbers usually had some part in the building or design of the tomb. This allowed them to find the burial rooms where the treasures were stored.

Directions: Read about life in ancient Egypt. Then, write a three- to five-sentence summary.
Egyptologists have learned much from the pyramids and mummies of ancient Egypt from the items left by grave robbers.

Women of ancient Egypt wore makeup to enhance their features. Dark colored minerals called koh/ were used as eyeliner and eye shadow. Men also wore eyeliner. Women used another mineral called ocher on their cheeks and lips to redden them. Henna, a plant which produces an orange dye, tinted the fingernails, the palms of their hands, and the soles of their feet.

Perfume was also important in ancient Egypt. Small cones made of wax were worn on top of the head. These cones contained perfume oils. The sun slowly melted the wax, and the perfume would scent the hair, head, and shoulders.


## Summarizing: King Tut

Directions: Read about King Tut. Then, write a five- to seven-sentence summary.
King Tutankhamen (TO-TAN-KO-MEN) became king of Egypt when he was only nine years old. Known today as "King Tut," he died in 1355 b.c. when he was 18. Because King Tut died so young, not much is known about what he did while he was king.

After his death, Tut's body was mummified and buried in a pyramid in the Valley of the Kings in Egypt. Many other kings of ancient Egypt were buried there also.

In 1922, King Tut became famous when an Englishman named Howard Carter discovered and explored his tomb. The king's mummy, wearing a gold mask decorated with precious stones, was found intact. Amazingly, all King Tut's riches were still in his tomb. His was the only one in the Valley of the Kings that had not been discovered and robbed.

The king's tomb contained four rooms. One contained his mummy. The other rooms were filled with beautiful furniture, including King Tut's throne. Also found in Tut's tomb were more than 3,000 objects, like clothes, jewelry, wine, food-and a trumpet that could still be played. Obviously, King Tut planned to live royally in the next world!


## Place Value

The place value of a digit or numeral is shown by where it is in the number. In the number $1,234,1$ has the place value of thousands, 2 is hundreds, 3 is tens, and 4 is ones.
Example: 1,250,000,000
Read: One billion, two hundred fifty million
Write: 1,250,000,000

| Billions | Millions |  |  | Thousands |  |  | Ones |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{h} \dagger \mathrm{o}$ | h | $\dagger$ | $\bigcirc$ | h | $\dagger$ | 0 | h |  | 0 |
| 1, | 2 | 5 | 0, | 0 | 0 | 0, | 0 | 0 | 0 |

Directions: Read the words. Then, write the numbers.
twenty million, three hundred four thousand $\qquad$
five thousand, four hundred twenty-three $\qquad$
one hundred fifty billion, eight million, one thousand, five hundred $\qquad$
sixły billion, seven hundred million, one hundred thousand, three hundred twelve $\qquad$
four hundred million, fifteen thousand, seven hundred one $\qquad$
six hundred ninety-nine million, four thousand,
nine hundred forty-two $\qquad$
Here's a game to play with a partner.
Write a 10-digit number using each digit, 0 to 9, only once. Do not show the number to your partner. Give clues like: "There is a five in the hundreds place." The clues can be given in any order. See if your partner can write the same number you have written.


## Place Value

Directions: Draw a line to connect each number to its correct written form.

1. 791,000
2. 350,000
3. $17,500,000$
4. $3,500,000$
5. 70,910
6. $35,500,000$
7. $17,000,500,000$

Three hundred fifty thousand

Seventeen million, five hundred thousand

Seven hundred ninety-one thousand

Seventy thousand, nine hundred ten

Three million, five hundred thousand

Seventeen billion, five hundred thousand

Thirty-five million, five hundred thousand

Directions: Look carefully at this number: $2,071,463,548$. Write the numeral for each of the following places.
8. $\qquad$ ten thousands
9. $\qquad$ millions
10. $\qquad$ hundreds
11. $\qquad$ billions
12. $\qquad$ hundred thousands
13. $\qquad$ ten millions
14. $\qquad$ one thousands
15. $\qquad$ hundred millions

## Addition

Addition is putting together two or more numbers to find the sum.
Directions: Add. Fill the backpacks with the right answers.


## Addition

Teachers of an Earth science class planned to take 50 students on an overnight hiking and camping experience. After planning the menu, they went to the grocery store for supplies.

| Breakfast | $\underline{\text { Lunch }}$ | Dinner |  |
| :--- | :--- | :--- | :--- |
| bacon |  | sandwiches | pasta |
| eggs | apples |  | sauce |
| fruit |  | pretzels | garlic bread |
| cereal <br> juice | juice | granola bars |  |
| $\$ 34.50$ | $\$ 52.15$ | $\$ 47.25$ |  |



Directions: Answer the questions. Write the total amount spent on food for the trip.
What information do you need to answer the question? $\qquad$

What is the total? $\qquad$
Directions: Add.

| $\begin{array}{r} 462 \\ +574 \\ \hline \end{array}$ | $\begin{array}{r} 918 \\ +\quad 359 \\ \hline \end{array}$ | $\begin{array}{r} 527 \\ +582 \\ \hline \end{array}$ | $\begin{array}{r} 386 \\ +745 \\ \hline \end{array}$ | $\begin{array}{r} 295 \\ +\quad 764 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| 397 | 524 | 906 | 750 | 891 |
| +448 | + 725 | +337 | +643 | +419 |
| 1,568 | 3,214 | 5,147 | 7,259 | 9,317 |
| + 2,341 | +2,896 | +4,285 | +2,451 | +3,583 |

## Addition

## Directions: Add.

1. Tourists travel to national parks to see the many animals that live there. Park rangers estimate 384 buffalo, 282 grizzly bears, and 426 deer are in the park. What is the total number of buffalo, bears, and deer estimated to be in the park?

2. Last August, 2,248 visitors drove motor homes into the campgrounds for overnight camping. 647 set up campsites with tents. How many campsites were there altogether in August?
$\qquad$
3. During a three-week camping trip, Carlos and his family hiked 42 miles, took a 126-mile canoeing trip, and drove their car 853 miles. How many miles did they travel in all?
$\qquad$
4. Old Faithful is a geyser that spouts water high into the air. 10,000 gallons of water burst into the air regularly. Two other geysers spout 2,400 gallons of water during each eruption. What is the amount of water thrust into the air during one cycle?
5. Yellowstone National Park covers approximately $2,221,772$ acres of land. Close by, the Grand Tetons cover approximately 310,350 acres. How many acres of land are there in these two parks?
$\qquad$
6. Hiking trails cover 486 miles, motor routes around the north rim total 376 miles, and another 322 miles of road allow visitors to follow a loop around the southern part of the park. How many miles of trails and roadways are there?

## Addition

Bob the butcher is popular with the dogs in town. He was making a delivery this morning when he noticed he was being followed by two dogs. Bob tried to climb a ladder to escape from the dogs. Solve the
following addition problems, and shade in the answers on the ladder. If all the numbers are shaded when the problems have been solved, Bob made it up the ladder. Some answers may not be on the ladder.
1.


| 986,145 |
| ---: |
| 621,332 |
| $+\quad 200,008$ |

4. $\begin{array}{r}43,015 \\ 2,811,604 \\ +\quad 987,053 \\ \hline\end{array}$
5. $\begin{array}{r}18,443 \\ 300,604 \\ +\quad 999,999 \\ \hline\end{array}$


6. $\begin{array}{r} \\ 9,162 \\ \\ 7,804 \\ +\quad 755,122 \\ \hline\end{array}$
7. $1,873,402$

| 925,666 |
| ---: |
| $+\quad 4,689$ |

3. 

506,328
886,510

| $+\quad 342,225$ |
| :--- |

1,319,046
2,803,757
8.

88,714
213,653
$\begin{array}{r}\text { +5,441,298 } \\ \hline\end{array}$
10.

4,581
22,983
$\begin{array}{r}\text { + } 5,618,775 \\ \hline\end{array}$

## Subtraction

Subtraction is taking away one number from another to find the difference between the two numbers.

Directions: Subtract.


Brent saved $\$ 75.00$ of the money he earned delivering the local newspaper in his neighborhood. He wanted to buy a new bicycle that cost \$139.00. How much more would he need to save in order to buy the bike?


When Brent finally went to buy the bicycle, he saw a light and basket for the bike. He decided to buy them both. The light was $\$ 5.95$, and the basket was $\$ 10.50$. He gave the clerk a 20 -dollar bill that his grandmother had given him for his birthday. How much change did he get back?


## Subtraction

When working with larger numbers, it is important to keep the numbers lined up according to place value.

Directions: Subtract.

| 398 | 543 | 491 |  |
| ---: | ---: | ---: | ---: |
| $-\mathbf{1 4 9}$ | $\underline{-287}$ | $\underline{-311}$ |  |
|  |  |  |  |
| 786 | 1,825 | 4,172 |  |
| $\underline{-597}$ | $\underline{-495}$ | $\underline{-2,785}$ |  |
|  |  |  |  |
|  |  |  |  |
| 8,391 | 63,852 | 24,107 | 52,900 |
| $\underline{-5,492}$ | $\underline{-34,765}$ | $\underline{-19,350}$ | $\underline{-43,081}$ |



Eagle Peak is the highest mountain peak at Yellowstone National Park. It is 11,353 feet high. The next highest point at the park is Mount Washburn. It is 10,243 feet tall. How much higher is Eagle Peak?

The highest mountain peak in North America is Mount McKinley, which stretches 20,320 feet toward the sky. Two other mountain ranges in North America have peaks at 10,302 feet and 8,194 feet. What is the greatest difference between the peaks?

## Checking Subtraction

You can check your subtraction by using addition.


Directions: Subtract. Then, check your answers by adding.


| $\begin{array}{r} 15,326 \\ -11,532 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 28,615 \\ -25,329 \\ \hline \end{array}$ | Check: |
| :---: | :---: | :---: | :---: |
| $\begin{array}{r} 96,521 \\ -47,378 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 46,496 \\ -35,877 \\ \hline \end{array}$ | Check: |
| $\begin{array}{r} 77,911 \\ -63,783 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 156,901 \\ -112,732 \\ \hline \end{array}$ | Check: |
| $\begin{array}{r} 395,638 \\ -187,569 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 67,002 \\ -53,195 \\ \hline \end{array}$ | Check: |
| $\begin{array}{r} 16,075 \\ -15,896 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 39,678 \\ -19,769 \\ \hline \end{array}$ | Check: |
| $\begin{array}{r} 84,654 \\ -49,997 \\ \hline \end{array}$ | Check: | $\begin{array}{r} 12,335 \\ -10,697 \\ \hline \end{array}$ | Check: |

During the summer, 158,941 people visited Yellowstone National Park. During the fall, there were 52,397 visitors. How many more visitors went to the park during the summer than the fall?


## Addition and Subtraction

Directions: Check the answers. Write $\mathbf{T}$ if the answer is true and $\mathbf{F}$ if it is false.

| Example: | 48,973 | Check: | 35,856 |
| :---: | :---: | :---: | :---: |
|  | -35,856 | F | +13,118 |
|  | 13,118 |  | 48,974 |


| 18,264 | Check: | 458,342 | Check: |
| ---: | :--- | ---: | :--- |
| $+17,893$ |  | $-297,652$ |  |
| 36,157 |  | 160,680 |  |


| 39,854 | Check: | 631,928 <br> $+52,713$ |  |
| ---: | :--- | ---: | :--- |
| 92,577 | - |  | Check: |
|  |  |  |  |
|  |  |  |  |
| 1474,615 |  |  |  |
| $+93,589$ | Check: |  | $-354,974$ |
| 107,976 |  |  |  |


| 87,321 | Check: | 109,568 <br> $-62,348$ |  |
| ---: | :--- | ---: | :--- |
| 24,973 | $+97,373$ | Check: |  |

Directions: Read the story problem. Write the equation, and check the answer.

A camper hikes 53,741 feet out into the wilderness. On his return trip, he takes a shortcut, walking 36,752 feet back to his cabin. The shortcut saves him 16,998 feet of hiking. True or false?


## Addition and Subtraction

Directions: Add or subtract to find the answers.
Eastland School hosted a field day. Students could sign up for a variety of events. 175 students signed up for individual races. Twenty two-person teams competed in the mile relay, and 36 kids took part in the high jump. How many students participated in the activities?


Westmore School brought 42 students and 7 adults to the field day event. Northern School brought 84 students and 15 adults. There was a total of 300 students and 45 adults at the event. How many were from other schools?

The Booster Club sponsored a concession stand during the day. Last year, they made \$1,000 at the same event. This year they hoped to earn at least \$1,250. They actually raised \$1,842. How much more did they make than they had anticipated?

Each school was awarded a trophy for participating in the field day's activities. The Booster Club planned to purchase three plaques as awards, but they only wanted to spend \$150. The first-place trophy they selected was \$68. The second-place award was \$59. How much would they be able to spend on the third-place award if they stay within their budgeted amount?

The Booster Club decided to spend \$1,000 to purchase several items for the school with the money they had earned. Study the list of items suggested, and decide which combination of items they could purchase.
A. Swing set $\$ 425$ $\qquad$
B. Sliding board
\$263
C. Scoreboard
\$515
D. Team uniforms
\$180

## Rounding

Rounding a number means to express it to the nearest ten, hundred, thousand, and so on. When rounding a number to the nearest ten, if the number has five or more ones, round up. Round down if the number has four or fewer ones.

## Examples:

| Round to the nearest ten: | 84 | $\longrightarrow \underline{80}$ | 86 | $\longrightarrow \underline{90}$ |
| :--- | ---: | :--- | ---: | :--- |
| Round to the nearest hundred: | 187 | $\longrightarrow \underline{200}$ | 120 | $\longrightarrow \underline{100}$ |
| Round to the nearest thousand: | 981 | $\longrightarrow \underline{1,000}$ | 5,480 | $\longrightarrow \underline{5,000}$ |

Directions: Round these numbers to the nearest ten.

$$
\begin{aligned}
& 87 \rightarrow \\
& 53 \rightarrow \\
& 48 \rightarrow \\
& 32 \rightarrow \\
& 76 \rightarrow
\end{aligned}
$$

Directions: Round these numbers to the nearest hundred.

Directions: Round these numbers to the nearest thousand.
$\qquad$ $3,492 \rightarrow$ $\qquad$ $7,521 \rightarrow$ $\qquad$ $14,904 \rightarrow$ $\qquad$ 62,387 $\rightarrow$ $\qquad$

| City Populations |  |
| :--- | :---: |
| City | Population |
| Cleveland | 390,113 |
| Seattle | 652,405 |
| Omaha | 434,353 |
| Kansas City | 467,007 |
| Atlanta | 447,841 |
| Austin | 885,400 |

Directions: Use the city population chart to answer the questions.

Which city has a population of about 500,000?

Which city has a population of about 900,000?

How many cities have a population of about 400,000? $\qquad$
Which ones? $\qquad$

## Estimating

To estimate means to give an approximate rather than an exact answer. Rounding each number first makes it easy to estimate an answer.

## Example:



Directions: Estimate the sums and differences by rounding the numbers first.

| $\begin{array}{r} 68 \\ +34 \end{array} \longrightarrow$ | $\begin{array}{r} 12 \\ +98 \end{array} \longrightarrow$ | $\begin{array}{r} 89 \\ +23 \end{array} \longrightarrow$ |
| :---: | :---: | :---: |
| $\begin{array}{r} 638 \\ -395 \end{array} \longrightarrow$ | $\begin{array}{r} 281 \\ -\quad 69 \end{array} \longrightarrow$ | $\begin{array}{r} 271 \\ -126 \end{array} \longrightarrow$ |
| $\begin{array}{r} 1,532 \\ -998 \end{array} \longrightarrow$ | $\begin{array}{r} 8,312 \\ -4,789 \end{array} \longrightarrow$ | $\begin{array}{r} 6,341 \\ +0,286 \end{array} \longrightarrow$ |

Alejandra has $\$ 50$ to purchase tennis shoes, a tennis racquet, and tennis balls. Does she have enough money?


## Rounding and Estimating

Rounding numbers and estimating answers is an easy way of finding the approximate answer without writing out the problem or using a calculator.

Directions: Circle the correct answer.
Round to the nearest ten:
$73 \longrightarrow \begin{aligned} & 70 \\ & 80\end{aligned}$

$$
48 \longrightarrow \begin{gathered}
40 \\
50
\end{gathered}
$$

$$
65 \longrightarrow \begin{aligned}
& 60 \\
& 70
\end{aligned}
$$

$$
85 \longrightarrow \begin{aligned}
& 80 \\
& 90
\end{aligned}
$$

$$
92 \longrightarrow \begin{gathered}
90 \\
100
\end{gathered}
$$

$$
37 \longrightarrow \begin{aligned}
& 30 \\
& 40
\end{aligned}
$$

Round to the nearest hundred:

$$
\begin{aligned}
& 139 \rightarrow \begin{array}{l}
100 \\
200
\end{array} \\
& 640 \rightarrow \begin{array}{l}
600 \\
700
\end{array}
\end{aligned}
$$

$$
782 \rightarrow \begin{aligned}
& 700 \\
& 800
\end{aligned}
$$

$$
390 \rightarrow \begin{aligned}
& 300 \\
& 400
\end{aligned}
$$

$$
525 \rightarrow \begin{aligned}
& 500 \\
& 600
\end{aligned}
$$

$$
457 \rightarrow \begin{gathered}
400 \\
500
\end{gathered}
$$

Round to the nearest thousand:

$$
1,375 \longrightarrow \begin{aligned}
& 1,000 \\
& 2,000
\end{aligned} \quad 21,800 \longrightarrow \begin{aligned}
& 21,000 \\
& 22,000
\end{aligned} \longrightarrow 36,240 \longrightarrow \begin{aligned}
& 36,000 \\
& 37,000
\end{aligned}
$$

Sam wanted to buy a new computer. He knew he had about $\$ 1,200$ to spend. Which of the following ones could he afford to buy?


If Sam spent \$39 on software for his new computer, \$265 for a printer, and \$38 for a cordless mouse, about how much money did he need?

## Prime Numbers

Example: 3 is a prime number because $3 \div 1=3$ and $3 \div 3=1$. Any other divisor will result in a mixed number or fraction.

A prime number is any number greater than 1 that can only be divided by itself and the number 1 .

A composite number is not a prime number. That is, it can be divided evenly by numbers other than itself and 1 .

Directions: Write the first 15 prime numbers. Test them by dividing by 2 and by 3 .

Prime Numbers:

A prime number is a positive whole number that can be divided evenly only by itself or one.


How many prime numbers are there between 0 and 100? $\qquad$

## Prime Numbers

Directions: Circle the prime numbers.

| 71 | 3 | 82 | 20 | 43 | 69 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 128 | 97 | 23 | 111 | 75 | 51 |
| 13 | 44 | 137 | 68 | 171 | 83 |
| 61 | 21 | 77 | 101 | 34 | 16 |
| 2 | 39 | 92 | 17 | 52 | 29 |
| 19 | 156 | 63 | 99 | 27 | 147 |
| 121 | 25 | 88 | 12 | 87 | 55 |
| 57 | 7 | 139 | 91 | 9 | 37 |
| 67 | 183 | 5 | 59 | 11 | 95 |

## Multiples

A multiple is the product of a specific number and any other number. When you multiply two numbers, the answer is called the product.

## Example:

The multiples of 2 are $2(2 \times 1), 4(2 \times 2), 6,8,10,12$, and so on.
The least common multiple (LCM) of two or more numbers is the smallest number other than 0 that is a multiple of each number.

## Example:

Multiples of 3 are $3, \mathbf{6}, 9, \mathbf{1 2}, 15, \mathbf{1 8}, 21, \mathbf{2 4}$, etc.
Multiples of 6 are $\mathbf{6}, \mathbf{1 2}, \mathbf{1 8}, \mathbf{2 4}, 30,36,42$, etc.
Multiples that 3 and 6 have in common are 6, 12, 18, 24.
The LCM of 3 and 6 is 6 .


Directions: Write the first nine multiples of 3,4 , and 6 . Write the LCM.
3: $\qquad$ , $\qquad$ , , - $\qquad$
$\qquad$
4: $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
6: $\qquad$ , $\qquad$ , $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
LCM = $\qquad$
Directions: Write the first nine multiples of 2 and 5 . Write the LCM.
2: $\qquad$ , $\qquad$ , , , $\qquad$ , .-

5: $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
$\qquad$ ,

LCM = $\qquad$
Directions: Find the LCM for each pair of numbers.
$\qquad$ 4 and 6 $\qquad$ 6 and 9 $\qquad$
5 and 15 $\qquad$ 5 and 4 $\qquad$ 3 and 18 $\qquad$
Directions: Fill in the missing numbers.
30 has multiples of 5 and $\qquad$ , of 2 and $\qquad$ , of 3 and $\qquad$ .

## Factors

Factors are the numbers multiplied together to give a product. The greatest common factor (GCF) is the largest number for a set of numbers that divides evenly into each number in the set.

## Example:

The factors of 12 are $3 \times 4,2 \times 6$, and $1 \times 12$.
We can write the factors like this: $3,4,2,6,12,1$.
The factors of 8 are $2,4,8,1$.
The common factors of 12 and 8 are 2 and 4 and 1 .
The GCF of 12 and 8 is 4 .


Directions: Write the factors of each pair of numbers. Then, write the common factors and the GCF.

1. $12:$ $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
15: $\qquad$ , $\qquad$ ,

The common factors of 12 and 15 are $\qquad$ , .

The GCF is $\qquad$ .
2. 20 : $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
10: $\qquad$ , $\qquad$ ,

The common factors of 10 and 20 are $\qquad$ , $\qquad$ , $\qquad$ .

The GCF is $\qquad$ .
3. 32 : $\qquad$ , $\qquad$ , , ,

24: $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
The common factors of 24 and 32 are $\qquad$ , $\qquad$
$\qquad$ .

The GCF is $\qquad$ .

Directions: Write the GCF for the following pairs of numbers.
28 and 20 $\qquad$ 42 and 12 $\qquad$
36 and 12 $\qquad$ 20 and 5 $\qquad$

## Factor Trees

A factor tree shows the prime factors of a number. The factors for a prime number, such as 7 , are only itself and 1 .

## Example:



Directions: Fill in the numbers in the factor tree.


## Factor Trees

Directions: Fill in the numbers in the factor trees. The first one has been done for you.


## Greatest Common Factor



## Least Common Multiple

Directions: Write the least common multiple for each pair of numbers.


## Multiplication

Multiplication is a process of quick addition of a number a certain number of times.

## Example: $3 \times 15=45$ is the same as adding $15+15+15=45$ 15 three times.

Directions: Multiply.

| 32 |
| ---: |
| $\times \quad 3$ | | 28 |
| ---: |
| $\times \quad 7$ |
|  |
| 251 |
| $\times \quad 4$ |


| 412 |
| ---: |
| $\times \quad 21$ |
|  |
| 256 |
| $\times \quad 74$ |

$\begin{array}{r}643 \\ \times \quad 17 \\ \hline\end{array}$
526
742
412
$\begin{array}{r} \\ \times \quad 21 \\ \hline\end{array}$

| $\quad 22$ |
| :--- |

$\begin{array}{r} \\ \times \quad 35 \\ \hline\end{array}$
$\begin{array}{r}275 \\ \times \quad 3 \\ \hline\end{array}$
$\begin{array}{r}256 \\ \times \quad 74 \\ \hline\end{array}$


372
$\begin{array}{r} \\ \times \quad 45 \\ \hline\end{array}$
951
94
$\times \quad 1$

Kerry is on the cross country team. She runs 3 miles every day except on her birthday. How many miles does she run each year?


## Multiplication

Be certain to keep the proper place value when multiplying by tens and hundreds.

## Examples:

| 143 | 250 |
| ---: | ---: |
| $\times 262$ | $\times \quad 150$ |
| 286 | 1250 |
| 858 | $\underline{250}$ |
| $\frac{286}{37,466}$ | 37,500 |

Directions: Multiply.
701
621
$\begin{array}{r}\times 308 \\ \hline\end{array}$
638
$\times$
348
300
$\times 20$
597
$\begin{array}{r}5424 \\ \hline\end{array}$
537

| $\times 189$ |
| :--- |

416
682
180
$\begin{array}{r}\times 727 \\ \hline\end{array}$
$\begin{array}{r}\times 472 \\ \hline\end{array}$
1840
$\times$
878
267
893
907
$\begin{array}{r}\times 638 \\ \hline\end{array}$
$\begin{array}{r}\times 196 \\ \hline\end{array}$
814
$\times 2$

| $\times 428$ |
| :--- |

An airplane flies 720 trips a year between the cities of Chicago and Columbus. Each trip is 375 miles. How many miles does the airplane fly each year?

## Division

Division is the reverse of multiplication. It is the process of dividing a number into equal groups of smaller numbers.

Directions: Divide.


Greg had 936 marbles to share with his two brothers. If the boys divided them evenly, how many will each one get? $\qquad$
The marbles Greg kept were four different colors: blue, green, red, and orange. He had the same number of each color. He divided them into two groups. One group had only orange marbles. The rest of the marbles were in the other group. How many marbles did he have in each group? orange $\qquad$ others $\qquad$
The dividend is the number to be divided by another number. In the problem $28 \div 7=4,28$ is the dividend.

The divisor is the number by which another number is divided. In the problem $28 \div 7=4,7$ is the divisor.

The quotient is the answer in a division problem. In the problem $28 \div 7=4,4$ is the quotient.
The remainder is the number left over in the quotient of a division problem. In the problem $29 \div 7=4 \mathrm{r} 1,1$ is the remainder.

Directions: Write the answers.
In the problem $25 \div 8=3 \mathrm{r} 1 \ldots$
What is the divisor? $\qquad$ What is the remainder? $\qquad$
What is the quotient? $\qquad$ What is the dividend? $\qquad$
Directions: Divide.
$9 \longdiv { 2 , 0 2 5 } \quad 6 \longdiv { 2 , 5 0 8 } \quad 3 \longdiv { 2 2 5 } \quad 5 \longdiv { 4 0 0 } \quad 2 \longdiv { 1 , 1 5 6 }$

## Division

The remainder in a division problem must always be less than the divisor.


Directions: Divide.

| $5 3 \longdiv { 1 , 2 2 0 }$ | $3 7 \longdiv { 1 , 5 2 8 }$ | $2 6 \longdiv { 3 , 6 1 8 }$ |
| :--- | :--- | :--- |
| $1 4 \longdiv { 3 8 9 }$ | $2 9 \longdiv { 2 , 6 4 5 }$ | $6 0 \longdiv { 8 , 0 1 0 }$ |
| $3 5 \longdiv { 2 , 5 4 6 }$ | $4 3 \longdiv { 4 9 2 }$ | $8 3 \longdiv { 4 , 6 0 8 }$ |

The Oregon Trail is 2,197 miles long. How long would it take a covered wagon traveling 20 miles a day to complete the trip?

## Checking Division

Answers in division problems can be checked by multiplying.


Directions: Divide and check your answers.


| $6 1 \longdiv { 2 , 7 3 6 } \quad$ Check: | $7 3 \longdiv { 8 6 , 1 4 3 }$ | Check: |  |
| :--- | :--- | :--- | :--- |
| $5 9 \longdiv { 9 , 3 9 0 }$ | Check: | $4 3 \longdiv { 7 7 , 1 4 1 }$ | Check: |
| $3 3 \longdiv { 8 2 , 0 5 0 }$ | Check: | $9 3 \longdiv { 8 4 , 0 3 9 }$ | Check: |

Denny has a baseball card collection. He has 13,789 cards. He wants to put the cards in a scrapbook that holds 15 cards on a page. How many pages does Denny need in his scrapbook? $\qquad$

## Multiplication and Division

Directions: Multiply or divide to find the answers.
Brianne's summer job is mowing lawns for three of her neighbors. Each lawn takes about 1 hour to mow and needs to be done once every week. At the end of the summer, she will have earned a total of $\$ 630$. She collected the same amount of money from each job. How much did each neighbor pay for her summer lawn service?


If the mowing season lasts for 14 weeks, how much will Brianne earn for each job each week? $\qquad$

If she had worked for two more weeks, how much would she have earned? $\qquad$

Brianne agreed to shovel snow from the driveways and sidewalks for the same three neighbors. They agreed to pay her the same rate. However, it only snowed seven times that winter. How much did she earn shoveling snow? $\qquad$

What was her total income for both jobs? $\qquad$

Directions: Multiply or divide.
$1 2 \longdiv { 7 , 4 7 6 }$
$2 3 \longdiv { 2 1 , 6 2 0 }$
$4 0 \longdiv { 3 2 , 6 0 0 }$
$32 \times 45=$ $\qquad$ $28 \times 15=$ $\qquad$ $73 \times 14=$ $\qquad$ $92 \times 30=$ $\qquad$

## Adding and Subtracting Like Fractions

A fraction is a number that names part of a whole. Examples of fractions are $\frac{1}{2}$ and $\frac{1}{3}$. Like fractions have the same denominator, or bottom number. Examples of like fractions are $\frac{1}{4}$ and $\frac{3}{4}$.

To add or subtract fractions, the denominators must be the same. Add or subtract only the numerators, the numbers above the line in fractions.

## Example:

numerators
denominators

Directions: Add or subtract these fractions.

| $\frac{6}{12}-\frac{3}{12}=$ | $\frac{4}{9}+\frac{1}{9}=$ | $\frac{1}{3}+\frac{1}{3}=$ | $\frac{5}{11}+\frac{4}{11}=$ |
| :--- | :--- | :--- | :--- |
| $\frac{3}{5}-\frac{1}{5}=$ | $\frac{5}{6}-\frac{2}{6}=$ | $\frac{3}{4}-\frac{2}{4}=$ | $\frac{3}{10}=$ |
| $\frac{3}{8}+\frac{2}{8}=$ | $\frac{1}{7}+\frac{4}{7}=$ | $\frac{2}{20}+\frac{15}{20}=$ | $\frac{11}{15}-\frac{9}{15}=$ |

Directions: Color the part of each pizza that equals the given fraction.


## Adding and Subtracting Unlike Fractions

Unlike fractions have different denominators. Examples of unlike fractions are $\frac{1}{4}$ and $\frac{2}{5}$. To add or subtract fractions, the denominators must be the same.

## Example:

Step 1: Make the denominators the same by finding the least common denominator. The LCD of a pair of fractions is the same as the least common multiple (LCM) of their denominators.

$$
\begin{array}{ll}
\frac{1}{3}+\frac{1}{4}=\quad \begin{array}{l}
\text { Multiples of } 3 \text { are } 3,6,9,12,15 . \\
\\
\text { Multiples of } 4 \text { are } 4,8,12,16 . \\
\\
\text { LCM (and LCD) }=12
\end{array} .
\end{array}
$$

Step 2: Multiply by a number that will give the LCD. The numerator and denominator must be multiplied by the same number.
A. $\frac{1}{3} \times \frac{4}{4}=\frac{4}{12}$
B. $\frac{1}{4} \times \frac{3}{3}=\frac{3}{12}$

Step 3: Add the fractions.

$$
\frac{1}{3}+\frac{1}{4}=\frac{4}{12}+\frac{3}{12}=\frac{7}{12}
$$

Directions: Follow the above steps to add or subtract unlike fractions. Write the LCM.


The basketball team ordered two pizzas. They left $\frac{1}{3}$ of one and $\frac{1}{4}$ of the other. How much pizza was left?


## Reducing Fractions

A fraction is in lowest terms when the GCF of both the numerator and denominator is 1 . These fractions are in lowest possible terms: $\frac{2}{3}, \frac{5}{8}$, and $\frac{99}{100}$.
Example: Write $\frac{4}{8}$ in lowest terms.
Step 1: Write the factors of 4 and 8 .
Factors of 4 are 4, 2, 1 .
Factors of 8 are 1, 8, 2, 4.
Step 2: Find the GCF: 4.
Step 3: Divide both the numerator and denominator by 4.


$$
\frac{6}{8}=\square \text { lowest terms } \quad \frac{9}{12}=\square \text { lowest terms }
$$

factors of $6: 6,1,2,3$ factors of 9 : $\qquad$ , , $\qquad$ GCF
factors of $8: 8,1,2,4$ factors of 12 : $\qquad$ , - $\qquad$ , $\qquad$
$\qquad$ GCF

| $\frac{2}{6}=$ | $\frac{10}{15}=$ | $\frac{8}{32}=$ | $\frac{4}{10}=$ |
| :--- | :--- | :--- | :--- |
| $\frac{12}{18}=$ | $\frac{6}{8}=$ | $\frac{4}{6}=$ | $\frac{3}{9}=$ |

Directions: Color the pizzas to show that $\frac{4}{6}$ in lowest terms is $\frac{2}{3}$.


## Improper Fractions

An improper fraction has a numerator that is greater than its denominator. An example of an improper fraction is $\frac{7}{6}$. An improper fraction should be reduced to its lowest terms.
Example: $\frac{5}{4}$ is an improper fraction because its numerator is greater than its denominator.
Step 1: Divide the numerator by the denominator: $5 \div 4=1$, r1
Step 2: Write the remainder as a fraction: $\frac{1}{4}$

$$
\frac{5}{4}=1 \frac{1}{4} \quad 1 \frac{1}{4} \text { is a mixed number-a whole number and a fraction. }
$$

Directions: Follow the steps above to change the improper fractions to mixed numbers.

| $\frac{9}{8}=$ | $\frac{11}{5}=$ | $\frac{5}{3}=$ | $\frac{7}{6}=$ | $\frac{8}{7}=$ | $\frac{4}{3}=$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\frac{21}{5}=$ | $\frac{9}{4}=$ | $\frac{3}{2}=$ | $\frac{9}{6}=$ | $\frac{25}{4}=$ | $\frac{8}{3}=$ |

Sara had 29 duplicate stamps in her stamp collection. She decided to give them to four of her friends. If she gave each of them the same number of stamps, how many duplicates will she have left? $\qquad$

Name the improper fraction in this problem. $\qquad$

What step must you do next to solve the problem? $\qquad$


Write your answer as a mixed number. $\qquad$

How many stamps could she give each of her friends? $\qquad$

## Mixed Numbers

A mixed number is a whole number and a fraction together. An example of a mixed number is $2 \frac{3}{4}$. A mixed number can be changed to an improper fraction.
Example: $2 \frac{3}{4}$

Step 1: Multiply the denominator by the whole number: $4 \times 2=8$
Step 2: Add the numerator: $8+3=11$
Step 3: Write the sum over the denominator: $\frac{11}{4}$


Directions: Follow the steps above to change the mixed numbers to improper fractions.

| $3 \frac{2}{3}=$ | $6 \frac{1}{5}=$ | $4 \frac{7}{8}=$ | $2 \frac{1}{2}=$ |
| :--- | :--- | :--- | :--- |
| $1 \frac{4}{5}=$ | $5 \frac{3}{4}=$ | $7 \frac{1}{8}=$ | $9 \frac{1}{9}=$ |
| $8 \frac{1}{2}=$ | $7 \frac{1}{6}=$ | $5 \frac{3}{5}=$ | $9 \frac{3}{8}=$ |
| $12 \frac{1}{5}=$ | $25 \frac{1}{2}=$ | $10 \frac{2}{3}=$ | $14 \frac{3}{8}=$ |

## Adding Mixed Numbers

To add mixed numbers, first find the least common denominator.
Always reduce the answer to lowest terms.
Example:

$$
\begin{array}{r}
5 \frac{1}{4} \longrightarrow 5 \frac{3}{12} \\
+6 \frac{1}{3} \longrightarrow+6 \frac{4}{12} \\
\hline 11 \frac{7}{12}
\end{array}
$$



Directions: Add. Reduce the answers to lowest terms.
$\begin{array}{r}8 \frac{1}{2} \\ +7 \frac{1}{4} \\ \hline\end{array}$
$\begin{array}{r}5 \frac{1}{4} \\ +2 \frac{3}{8} \\ \hline\end{array}$
$9 \frac{3}{10}$
$8 \frac{1}{5}$
$+7 \frac{1}{5}$
$+6 \frac{7}{10}$

$$
\begin{array}{r}
4 \frac{4}{5} \\
+3 \frac{3}{10} \\
\hline
\end{array}
$$

$3 \frac{1}{2}$
$+7 \frac{1}{4}$
$4 \frac{1}{2}$
$6 \frac{1}{12}$
$\begin{array}{r}6 \frac{1}{3} \\ +2 \frac{2}{5} \\ \hline\end{array}$
$2 \frac{2}{7}$
$3 \frac{1}{2}$
$+2 \frac{3}{9} \quad+2 \frac{2}{5}$
$+4 \frac{1}{14}$
$\begin{array}{r}+3 \frac{1}{4} \\ \hline\end{array}$
.

The boys picked $3 \frac{1}{2}$ baskets of apples. The girls picked $5 \frac{1}{2}$ baskets. How many baskets of apples did the boys and girls pick in all?

## Subtracting Mixed Numbers

To subtract mixed numbers, first find the least common denominator. Reduce the answer to its lowest terms.

Directions: Subtract. Reduce to lowest terms.
Example:

$$
\begin{array}{r}
6 \frac{5}{8} \rightarrow 6 \frac{10}{16} \\
-3 \frac{4}{16} \rightarrow-3 \frac{4}{16} \\
\hline 3 \frac{6}{16}=3 \frac{3}{8}
\end{array}
$$



$$
\begin{array}{rrrr}
2 \frac{3}{7} & 7 \frac{2}{3} & 6 \frac{3}{4} & 9 \frac{5}{12} \\
-1 \frac{1}{14} & -5 \frac{1}{8} & -2 \frac{3}{12} & -5 \frac{9}{24} \\
\hline
\end{array}
$$

$$
\begin{array}{rrrr}
5 \frac{1}{2} & 7 \frac{3}{8} & 8 \frac{3}{8} & 11 \frac{5}{6} \\
-3 \frac{1}{3} & -5 \frac{1}{6} & -6 \frac{5}{12} & -7 \frac{1}{12} \\
\hline & & 4 \frac{4}{5} & 9 \frac{2}{3} \\
-7 \frac{3}{5} & -2 \frac{1}{4} & -4 \frac{1}{6} & 14 \frac{3}{8} \\
\hline
\end{array}
$$

The Rodriguez Farm has $9 \frac{1}{2}$ acres of corn. The Johnson Farm has $7 \frac{1}{3}$ acres of corn. How many more acres of corn does the Rodriguez Farm have?

## Comparing Fractions

Directions: Use the symbol > (greater than), < (less than), or = (equal to) to show the relationship between each pair of fractions.
$\frac{1}{2}$ $\qquad$
$\frac{2}{5}$ $\qquad$ $\frac{3}{8}-\frac{2}{4}$

$\frac{2}{3}-\frac{4}{5}$

$$
\frac{3}{9}
$$


$\frac{2}{14}$
$\frac{1}{7}$
$\frac{5}{15} \quad \frac{2}{3}$

If Kelly gave $\frac{1}{3}$ of a pizza to Holly and $\frac{1}{5}$ to Zoe, how much did she have left?

Holly decided to share $\frac{1}{2}$ of her share of the pizza with Lila. How much did each of them actually get?

## Ordering Fractions

When putting fractions in order from smallest to largest or largest to smallest, it helps to find a common denominator first.

## Example:

$\frac{1}{3}, \frac{1}{2}$ changed to $\frac{2}{6}, \frac{3}{6}$


Directions: Put the following fractions in order from least to largest value.

| $\frac{1}{2}$ | $\frac{2}{7}$ | $\frac{4}{5}$ | $\frac{1}{3}$ |
| :---: | :---: | :---: | :---: |
| $\frac{3}{12}$ | $\frac{3}{6}$ | $\frac{1}{3}$ | $\frac{3}{4}$ |
| $\frac{2}{5}$ | $\frac{4}{15}$ | $\frac{3}{5}$ | $\frac{5}{15}$ |

$3 \frac{4}{5} \quad 3 \frac{2}{5} \quad \frac{9}{5} \quad 3 \frac{1}{5}$

9 $\frac{9}{12}$
$8 \frac{2}{3}$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$5 \frac{8}{12} \quad 5 \frac{5}{12} \quad 5 \frac{4}{24} \quad 5 \frac{3}{6}$

$$
4 \frac{3}{5}
$$

$5 \frac{7}{15}$
$6 \frac{2}{5}$
$5 \frac{1}{5}$
Four dogs were selected as finalists at a dog show. They were judged in four separate categories. One received a perfect score in each area. The dog with a score closest to four is the winner. Their scores are listed below. Which dog won the contest? $\qquad$
Dog A $3 \frac{4}{5}$
Dog B
$3 \frac{2}{3}$
Dog C
Dog D
$3 \frac{9}{12}$

## Multiplying Fractions

To multiply fractions, follow these steps:

$$
\begin{array}{ll}
\frac{1}{2} \times \frac{3}{4}= & \text { Step 1: Multiply the numerators. } \\
\text { Step 2: Multiply the denominators. } & 1 \times 3=3 \\
2 \times 4=\frac{3}{8}
\end{array}
$$

When multiplying a fraction by a whole number, first change the whole number to a fraction.

## Example:

$$
\frac{1}{2} \times 8=\frac{1}{2} \times \frac{8}{1}=\frac{8}{2}=4 \text { reduced to lowest terms }
$$

Directions: Multiply. Reduce your answers to lowest terms.

| $\frac{3}{4} \times \frac{1}{6}=$ | $\frac{1}{2} \times \frac{5}{8}=$ | $\frac{2}{3} \times \frac{1}{6}=$ | $\frac{2}{3} \times \frac{1}{2}=$ |
| :--- | :--- | :--- | :--- |
| $\frac{5}{6} \times 4=$ | $\frac{3}{8} \times \frac{1}{16}=$ | $\frac{1}{5} \times 5=$ | $\frac{7}{8} \times \frac{3}{4}=$ |
| $\frac{7}{11} \times \frac{1}{3}=$ | $\frac{2}{9} \times \frac{9}{4}=$ | $\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}=$ | $\frac{1}{4} \times \frac{1}{2}=$ |

Amina has 10 pets. Two-fifths of the pets are cats, one-half are fish, and one-tenth are dogs. How many of each pet does she have?


## Multiplying Mixed Numbers

Multiply mixed numbers by first changing them to improper fractions. Always reduce your answers to lowest terms.

## Example:

$2 \frac{1}{3} \times 1 \frac{1}{8}=\frac{7}{3} \times \frac{9}{8}=\frac{63}{24}=2 \frac{15}{24}=2 \frac{5}{8}$
Directions: Multiply. Reduce to lowest terms.

| $4 \frac{1}{4} \times 2 \frac{1}{5}=$ | $1 \frac{1}{3} \times 3 \frac{1}{4}=$ | $1 \frac{1}{9} \times 3 \frac{3}{5}=$ |
| :--- | :--- | :--- |
| $1 \frac{6}{7} \times 4 \frac{1}{2}=$ | $2 \frac{3}{4} \times 2 \frac{3}{5}=$ | $4 \frac{2}{3} \times 3 \frac{1}{7}=$ |
| $6 \frac{2}{5} \times 2 \frac{1}{8}=$ | $3 \frac{1}{7} \times 4 \frac{5}{8}=$ | $7 \frac{3}{8} \times 2 \frac{1}{9}=$ |

Sunnyside Farm has two barns with 25 stalls in each barn.
Cows use $\frac{3}{5}$ of the stalls, and horses use the rest.
How many stalls are for cows? $\qquad$
How many are for horses? $\qquad$
(Hint: First, find how many total stalls are in the two barns.)


## Dividing Fractions

To divide fractions, follow these steps:

$$
\frac{3}{4} \div \frac{1}{4}=
$$

Step 1: Invert the divisor. That means to turn it upside down.

$$
\frac{3}{4} \div \frac{4}{1}
$$

Step 2: Multiply the two fractions:

$$
\frac{3}{4} \times \frac{4}{1}=\frac{12}{4}
$$



Step 3: Reduce the fraction to lowest terms by dividing the denominator into the numerator.

$$
\begin{aligned}
& 12 \div 4=3 \\
& \frac{3}{4} \div \frac{1}{4}=3
\end{aligned}
$$

Directions: Follow the above steps to divide fractions.

| $\frac{1}{4} \div \frac{1}{5}=$ | $\frac{1}{3} \div \frac{1}{12}=$ | $\frac{3}{4} \div \frac{1}{3}=$ |
| :--- | :--- | :--- |
| $\frac{5}{12} \div \frac{1}{3}=$ | $\frac{3}{4} \div \frac{1}{6}=$ | $\frac{2}{9} \div \frac{2}{3}=$ |
| $\frac{3}{7} \div \frac{1}{4}=$ | $\frac{2}{3} \div \frac{4}{6}=$ | $\frac{2}{3}=$ |
| $\frac{4}{5} \div \frac{1}{3}=$ | $\frac{4}{8} \div \frac{1}{2}=$ | $\frac{6}{8}=$ |

## Dividing Whole Numbers by Fractions

Follow these steps to divide a whole number by a fraction:

$$
8 \div \frac{1}{4}=
$$

Step 1: Write the whole number as a fraction:

$$
\frac{8}{1} \div \frac{1}{4}=
$$

Step 2: Invert the divisor.

$$
\frac{8}{1} \div \frac{4}{1}=
$$

Step 3: Multiply the two fractions:


$$
\frac{8}{1} \times \frac{4}{1}=\frac{32}{1}
$$

Step 4: Reduce the fraction to lowest terms by dividing the denominator into the numerator: $32 \div 1=32$

Directions: Follow the above steps to divide a whole number by a fraction.

| $6 \div \frac{1}{3}=$ | $4 \div \frac{1}{2}=$ | $21 \div \frac{1}{3}=$ |
| :--- | :--- | :--- |
| $8 \div \frac{1}{2}=$ | $3 \div \frac{1}{6}=$ | $15 \div \frac{1}{7}=$ |
| $9 \div \frac{1}{5}=$ | $4 \div \frac{1}{9}=$ | $12 \div \frac{1}{6}=$ |

Three-fourths of a bag of popcorn fits into one bowl.
How many bowls do you need if you have six bags of popcorn? $\qquad$

## Decimals

A decimal is a number with one or more places to the right of a decimal point.
Examples: 6.5 and 2.25


Directions: Write the fractions as decimals.

$$
\frac{1}{2}=\frac{}{10}=0
$$

$\frac{2}{5}=\overline{10}=0$. $\qquad$
$\frac{1}{5}=\frac{}{10}=0$. $\qquad$
$\frac{3}{5}=\frac{}{10}=0$. $\qquad$


| $\frac{63}{100}=$ | $2 \frac{8}{10}=$ | $38 \frac{4}{100}=$ | $6 \frac{13}{100}=$ |
| :---: | :---: | :---: | :---: |
| $\frac{1}{4}=$ | $\frac{2}{5}=$ | $\frac{1}{20}=$ | $\frac{100}{200}=$ |
| $5 \frac{2}{100}=$ | $\frac{4}{25}=$ | $15 \frac{3}{5}=$ | $\frac{3}{100}=$ |

## Decimals and Fractions

Directions: Write the letter of the fraction that is equal to the decimal.


## Adding and Subtracting Decimals

Add and subtract with decimals the same way you do with whole numbers. Keep the decimal points lined up so that you work with hundreths, then tenths, then ones, and so on.

Directions: Add or subtract. Remember to keep the decimal point in the proper place.


## Multiplying Decimals

Multiply with decimals the same way you do with whole numbers. The decimal point moves in multiplication. Count the number of decimal places in the problem, and use the same number of decimal places in your answer.

## Example:

$$
\begin{array}{r}
3.5 \\
\times 1.5 \\
\hline 175 \\
35 \\
\hline 5.25
\end{array}
$$

Directions: Multiply.

2.5
$\begin{array}{r}\times .9 \\ \hline\end{array}$
67.4
$\begin{array}{r}67.3 \\ \times 2 \\ \hline\end{array}$
9.06
$\begin{array}{r}2.38 \\ \hline\end{array}$
28.97
$\begin{array}{r} \\ \times \quad 5.16 \\ \hline\end{array}$
83.7
13.35
$\begin{array}{r}8.8 \\ \hline\end{array}$
$\begin{array}{r}\times 3.06 \\ \hline\end{array}$
28.7
$\begin{array}{r}11.9 \\ \hline\end{array}$

The jet flies 1.5 times faster than the plane with a propeller. The propeller plane flies 165.7 miles per hour. How fast does the jet fly?


## Dividing with Decimals

When the dividend has a decimal, place the decimal point for the answer directly above the decimal point in the dividend. The first one has been done for you.
12.5
$3 \longdiv { 3 7 . 5 }$
$-\frac{3}{07}$
$\frac{-6}{15}$
$\frac{-15}{0}$
$5 \longdiv { 1 8 7 . 5 }$
$7 \longdiv { 1 8 1 . 3 }$
$6 \longdiv { 3 4 0 . 8 }$
$9 \longdiv { 2 9 4 . 3 }$
$3 \longdiv { 1 3 5 . 6 }$
$5 \longdiv { 2 6 4 . 5 }$
$2 \longdiv { 1 3 4 . 6 }$
$8 \longdiv { 7 5 4 . 4 }$
$5 \longdiv { 3 5 . 2 5 }$
$7 \longdiv { 7 9 . 4 5 }$
$9 \longdiv { 2 8 . 7 1 }$
$3 6 \longdiv { 1 9 9 . 4 4 }$

## Dividing Decimals by Decimals

When the divisor has a decimal point, you must eliminate it before dividing. You can do this by moving the decimal point to the right to create a whole number. You must also move the decimal point the same number of spaces to the right in the dividend.

Sometimes you need to add zeros to do this.

| Example: | $0 . 2 5 \longdiv { 8 5 . 5 0 }$ | changes to | 342 |
| :---: | :---: | :---: | :---: |
|  |  |  | $2 5 \longdiv { 8 5 5 0 }$ |
|  |  |  | -75 |
|  |  |  | 105 |
|  |  |  | $-100$ |
|  |  |  | 50 |
|  |  |  | 50 |
| Directions: |  |  | 0 |

$0 . 3 \longdiv { 2 7 . 9 }$
$0 . 6 \longdiv { 4 2 . 6 }$
$0 . 9 \longdiv { 8 7 . 9 }$
$0 . 7 \longdiv { 8 3 . 3 }$
$0 . 4 \longdiv { 2 3 . 2 }$
$0 . 7 \longdiv { 5 6 . 7 }$
$1 . 2 \longdiv { 1 0 . 8 }$
$2 . 2 \longdiv { 1 3 8 . 6 }$
$1 2 . 6 \longdiv { 5 , 6 7 0 }$
$4 . 7 \longdiv { 5 6 4 }$
$8 . 6 \longdiv { 8 4 2 . 8 }$
$3 . 7 \longdiv { 2 , 0 0 9 . 1 }$
$5 . 9 \longdiv { 1 , 9 1 7 . 5 }$
$4 . 3 \longdiv { 1 , 3 7 6 }$
$2 . 9 \longdiv { 9 2 2 . 2 }$
$2 . 7 \longdiv { 5 6 1 3 . 3 }$

## Geometry

Geometry is the branch of mathematics that has to do with points, lines, and shapes.
Directions: Write the word from the box that fits each description. Use the glossary on pages 446-455 if you need help.

| triangle <br> line | square <br> ray | cube <br> segment | angle <br> rectangle |
| :--- | :--- | :--- | :--- |

a collection of points on a straight path
that goes on and on in opposite directions $\qquad$

-

a figure with three sides and three corners $\qquad$
a figure with four equal sides and four corners $\qquad$

part of a line that has one end point and goes on and on in one direction
part of a line having two end points
a space figure with six square faces
$\qquad$

$\qquad$
$\qquad$

two rays with a common end point
a figure with four corners and four sides
$\qquad$
$\qquad$

## Geometry

Review the definitions on the previous page before completing the problems below.
Directions: Identify the labeled section of each of the following diagrams.

$A B=$ $\qquad$
$A B C=$ $\qquad$

$A B=$
$C D=$

$$
A C=
$$



## Similar, Congruent, and Symmetrical Figures

Similar figures have the same shape but have varying sizes.
Figures that are congruent have identical shapes but different orientations. That means they face in different directions.

Symmetrical figures can be divided equally into two identical parts.
Directions: Cross out the shape that does not belong in each group. Label the two remaining shapes as similiar, congruent, or symmetrical.


## Perimeter and Area

The perimeter ( $\mathbf{P}$ ) of a figure is the distance around it. To find the perimeter, add the lengths of the sides.

The area (A) of a figure is the number of units in a figure. Find the area by multiplying the length of a figure by its width.

## Example:

$\mathbf{P}=16$ units
$\mathbf{A}=16$ units


Directions: Find the perimeter and area of each figure.

$P=$ $\qquad$
$A=$ $\qquad$

## 9 yards

$$
\begin{aligned}
& P= \\
& A= \\
&
\end{aligned}
$$

$\mathrm{P}=$ $\qquad$
$A=$ $\qquad$
45 miles
$\mathrm{P}=$ $\qquad$
A = $\qquad$

## Volume

The formula for finding the volume of a box is length times width times height ( $\mathbf{L} \mathbf{x} \mathbf{W} \mathbf{x ~ H}$ ). The answer is given in cubic units.

Directions: Solve the problems.

## Example:

Height 8 ft .
Length 8 ft .
Width 8 ft . $\mathbf{L} \times \mathbf{W} \times \mathbf{H}=$ volume
$8^{\prime} \times 8^{\prime} \times 8^{\prime}=512$ cubic ft . or $512 \mathrm{ft}^{3}$.


12 ft.


$$
V=
$$

## Perimeter and Area

Directions: Use the formulas for finding perimeter and area to solve these problems.
Julie's family moved to a new house. Her parents said she could have the largest bedroom. Julie knew she would need to find the area of each room to find which one was largest.

One rectangular bedroom is 7 feet wide and 12 feet long. Another is 11 feet long and 9 feet wide. The third bedroom is a square. It is 9 feet wide and 9 feet long. Which one should she select to have the largest
 room?

The new home also has a swimming pool in the backyard. It is 32 feet long and 18 feet wide. What is the perimeter of the pool?

Julie's mother wants to plant flowers on each side of the new house. She will need three plants for every foot of space. The house is 75 feet across the front and back and 37.5 feet along each side. Find the perimeter of the house.

How many plants should she buy? $\qquad$
The family decided to buy new carpeting for several rooms. Complete the necessary information to determine how much carpeting to buy.

Den: $12 \mathrm{ft} . \times 14 \mathrm{ft} .=$ $\qquad$ sq. ft.

Master bedroom: $20 \mathrm{ft} . \mathrm{x}$ $\qquad$ $=360 \mathrm{sq}$. ft.

Family room: $\qquad$ $\times 25 \mathrm{ft} .=375 \mathrm{sq} . \mathrm{ft}$.

Total square feet of carpeting: $\qquad$

## Perimeter, Area, and Volume

Directions: Find the perimeter and area.

1. Length $=8 \mathrm{ft}$.

Width $=11 \mathrm{ft}$.

$$
P=
$$ $A=$ $\qquad$

2. Length $=12 \mathrm{ft}$.

Width $=10 \mathrm{ft}$.
$\mathrm{P}=$ $\qquad$ $A=$ $\qquad$
3. Length $=121 \mathrm{ft}$.


Width $=16 \mathrm{ft}$.
$\qquad$
$\mathrm{P}=$ $\qquad$ $A=$
4. Length $=72 \mathrm{in}$.

Width $=5 \mathrm{ft}$.
$P=$ $\qquad$ $A=$ $\qquad$
Directions: Find the perimeter, area, and volume.
5. Length $=7 \mathrm{ft}$.

Width $=12 \mathrm{ft}$.
Height $=10 \mathrm{ft}$.
$P=$ $\qquad$
$A=$ $\qquad$
$V=$ $\qquad$
6. Length $=48 \mathrm{in}$.

Width $=7 \mathrm{ft}$.
Height $=12 \mathrm{in}$.
$P=$ $\qquad$
$A=$ $\qquad$
$V=$ $\qquad$
7. Length $=12 \mathrm{in}$.

Width $=15 \mathrm{in}$.
Height $=20 \mathrm{in}$.
$P=$ $\qquad$
$A=$ $\qquad$
$V=$ $\qquad$
8. Length $=22 \mathrm{ft}$.

Width $=40 \mathrm{ft}$.
Height $=10 \mathrm{ft}$.
$P=$ $\qquad$
$A=$ $\qquad$
$V=$ $\qquad$

## Circumference

Circumference is the distance around a circle. The diameter is a line segment that passes through the center of a circle and has both end points on the circle.

To find the circumference of any circle, multiply 3.14 times the diameter. The number 3.14 represents $\mathbf{p i}$ (pronounced pie) and is often represented by this Greek symbol, $\pi$.

The formula for circumference is $C=\pi \times d$

$$
\begin{aligned}
& C=\text { circumference } \\
& d=\text { diameter } \\
& \pi=3.14
\end{aligned}
$$

## Example:

Circle A
$\mathrm{d}=2 \mathrm{in}$.
$\mathrm{C}=3.14 \times 2 \mathrm{in}$.
$\mathrm{C}=6.28 \mathrm{in}$.


Directions: Find the circumference of each circle.

$C=$ $\qquad$

$\qquad$
$d=10 \mathrm{in}$.
$d=14 \mathrm{in}$.
$d=3 \mathrm{yd}$.
$C=$ $\qquad$
$d=4 \mathrm{ft}$.
$\mathrm{d}=8 \mathrm{ft}$.
$d=12 \mathrm{ft}$.
$C=$ $\qquad$
$C=$ $\qquad$ C =

C = $\qquad$ $C=$
$\qquad$
$\qquad$

## Circumference

The radius of a circle is the distance from the center of the circle to its outside edge. The diameter equals two times the radius.

Find the circumference by multiplying $\pi$ (3.14) times the diameter or by multiplying $\pi$ (3.14) times $2 r$ (2 times the radius).
$\mathrm{C}=\pi \times \mathrm{d}$ or $\mathrm{C}=\pi \times 2 \mathrm{r}$
Directions: Write the missing radius, diameter, or circumference.


## Diameter, Radius, and Circumference

$C=\pi \times d$ or $C=\pi \times 2 r$
Directions: Write the missing radius, diameter, or circumference.
Katie was asked to draw a circle on the playground for a game during recess. If the radius of the circle needed to be 14 inches, how long is the diameter? $\qquad$
What is the circumference? $\qquad$

A friend told her that more kids could play the game if they enlarged the circle. She had a friend help her. They made the diameter of the circle 45 inches long.

What is the radius? $\qquad$
What is the circumference? $\qquad$

Jamie was creating an art project. He wanted part of it to be a sphere. He measured 24 inches for the diameter.

What would the radius of the sphere be? $\qquad$
Find the circumference. $\qquad$


Unfortunately, Jamie discovered that he didn't have enough material to create a sphere that large, so he cut the dimensions in half. What are the new dimensions for his sphere?

Radius $\qquad$
Diameter $\qquad$
Circumference $\qquad$

## Triangle Angles

A triangle is a figure with three corners and three sides. Every triangle contains three angles. The sum of the angles is always $180^{\circ}$, regardless of the size or shape of the triangle.

If you know two of the angles, you can add them together, and then subtract the total from 180 to find the number of degrees in the third angle.

Directions: Find the number of degrees in the third angle of each triangle.


$$
A=
$$

$\qquad$

$B=$ $\qquad$ $-$

$A=$
$\qquad$
$C=$ $\qquad$
$\qquad$

$A=$ $\qquad$


## Area of a Triangle

The area of a triangle is found by multiplying $\frac{1}{2}$ times the base times the height.

$$
A=\frac{1}{2} \times b \times h
$$

## Example:

$\overline{C D}$ is the height. 4 in .
$\overline{\mathrm{AB}}$ is the base. 8 in .
Area $=\frac{1}{2} \times 4 \times 8=\frac{32}{2}=16 \mathrm{sq} . \mathrm{in}$.
Directions: Find the area of each triangle.


$A=$ $\qquad$

$A=$ $\qquad$

9 in.

$A=$ $\qquad$
$A=$ $\qquad$

## Space Figures

Space figures are figures whose points are in more than one plane. Cubes and cylinders are space figures.


cone

cube

cylinder

sphere

pyramid

A prism has two identical, parallel bases.
All of the faces on a rectangular prism are rectangles.
A cube is a prism with six identical, square faces.
A pyramid is a space figure whose base is a polygon and whose faces are triangles with a common vertex-the point where two rays meet.

A cylinder has a curved surface and two parallel bases that are identical circles.
A cone has one circular, flat face and one vertex.
A sphere has no flat surface. All points are an equal distance from the center.
Directions: Circle the name of the figure you see in each of these familiar objects

cone
sphere
cylinder
cone
cube
sphere
cylinder
rectangular prism
pyramid
cylinder

## Length

Inches, feet, yards, and miles are used to measure length in the United States.

## 12 inches = 1 foot (ft.)

## 3 feet = 1 yard (yd.)

## 36 inches = 1 yard

1,760 yards $=1 \mathrm{mile}$ (mi.)
Directions: Circle the best unit to measure each object. The first one has been done for you.


## Length

Directions: Use a ruler to find the shortest paths. Round your measurement to the nearest quarter inch. Then, convert to yards using the scale.


Hot dog stand to the roller coaster ... $\qquad$
The Ferris wheel to the animal barn . . . $\qquad$
Entrance to roller coaster . . . $\qquad$
Animal barn to hot dog stand ... $\qquad$
Ferris wheel to roller coaster to entrance ...

## Length: Metric

Millimeters, centimeters, meters, and kilometers are used to measure length in the metric system.

```
1 meter = 39.37 inches
1 kilometer = about }\frac{5}{8}\mathrm{ mile
10 millimeters = 1 centimeter (cm)
100 centimeters = 1 meter (m)
1,000 meters = 1 kilometer (km)
```

Directions: Circle the best unit to measure each object. The first one has been done for you.
the length of a $\quad$ meters $\quad$ kilometers

## Weight

Ounces, pounds, and tons are used to measure weight in the United States.

## 16 ounces $=1$ pound (lb.) <br> 2,000 pounds = 1 ton (tn.)

Directions: Circle the most reasonable estimate for the weight of each object. The first one has been done for you.


## Weight: Metric

Grams and kilograms are units of weight in the metric system. A paper clip weighs about 1 gram. A kitten weighs about 1 kilogram.

## 1 kilogram (kg) = about 2.2 pounds

## 1,000 grams ( g ) = 1 kilogram

Directions: Circle the best unit to weigh each object.

kilogram
gram

kilogram gram

kilogram gram

kilogram gram

kilogram gram
kilogram gram

## Capacity

The fluid ounce, cup, pint, quart, and gallon are used to measure capacity in the United States.


1 cup


1 pint


1 quart


1 half gallon


1 gallon

8 fluid ounces (fl. oz.) = 1 cup (c.) 2 cups = 1 pint (pt.)
2 pints = 1 quart (qt.)
2 quarts $=1$ half gallon ( $\frac{1}{2}$ gal.)
4 quarts = 1 gallon (gal.)

Directions: Convert the units of capacity.
13 gal. $=$ $\qquad$ q†.
10 pt. = $\qquad$ c.
$12 \mathrm{c} .=$ $\qquad$ pt.
4 gal. $=$ $\qquad$ q†.
$16 \mathrm{qt} .=$ $\qquad$ gal.
$5 \mathrm{c} .=$ $\qquad$ pt.
36 pt. $=$ $\qquad$ gal.
12 qt. $=$ $\qquad$ pt.
6 gal. $=$ $\qquad$ pt.
$16 \mathrm{c} .=$ $\qquad$ q†.
$32 \mathrm{oz}=$ $\qquad$ c.
16 oz. = $\qquad$ pt.

## Capacity: Metric

Milliliters and liters are units of capacity in the metric system. A can of soda contains about 350 milliliters of liquid. A large plastic bottle contains 1 liter of liquid. A liter is about a quart.

## 1,000 milliliters ( mL ) $=1$ liter ( L )

Directions: Circle the best unit to measure each liquid.


## Comparing Measurements

Directions: Use the symbols greater than (>), less than (<), or equal to ( $=$ ) to complete each statement.

10 inches $\qquad$ 10 centimeters

## للسلسلسلسلسـلس

40 feet $\quad 120$ yards

25 grams
16 quarts $\qquad$ 4 gallons

2 liters $\qquad$ 2 milliliters

16 yards $\qquad$ 6 meters

3 miles $\qquad$ 3 kilometers

20 centimeters $\qquad$ 20 meters

85 kilograms $\qquad$ 8 grams

2 liters $\qquad$ 1 gallon

## Temperature: Fahrenheit

Degrees Fahrenheit $\left({ }^{\circ} \mathrm{F}\right)$ is a unit for measuring temperature.
Directions: Write the temperature in degrees Fahrenheit ( ${ }^{\circ} \mathrm{F}$ ).

## Example:


$25^{\circ} \mathrm{F}$


## Temperature: Celsius

Degrees Celsius ( ${ }^{\circ} \mathrm{C}$ ) is a unit for measuring temperature in the metric system. Zero ${ }^{\circ} \mathrm{C}$ is equivalent to $32^{\circ} \mathrm{F}$.

Directions: Write the temperature in degrees Celsius $\left({ }^{\circ} \mathrm{C}\right)$.

## Example:


$30^{\circ} \mathrm{C}$


## Review

Directions: Write the best unit to measure each item: inch, foot, yard, mile, ounce, pound, ton, fluid ounce, cup, pint, quart, or gallon.
distance from New York to Chicago
weight of a goldfish
height of a building
water in a large fish tank
glass of milk
weight of a whale
length of a pencil
distance from first base to second base
distance traveled by a space shuttle
length of a soccer field
amount of paint needed to cover a house
material needed to make a dress
$\qquad$


## Ratio

## A ratio is a comparison of two quantities.

Ratios can be written three ways: 2 to 3 or $2: 3$ or $\frac{2}{3}$. Each ratio is read: two to three.

## Example:

The ratio of triangles to circles is 2 to 3 .


Directions: Write the ratio that compares these items.

$\qquad$
ratio of cubes to triangles $\qquad$

ratio of pens to pencils $\qquad$

## Percent

Percent is a ratio meaning "per hundred." It is written with a \% sign. 20\% means 20 percent or 20 per hundred.

## Example:


ratio $=\frac{30}{100}$
percent = 30\%

ratio $=$ $\qquad$
percent $=$ $\qquad$

Directions: Write the percent for each ratio.

| $\frac{7}{100}=$ | $\frac{38}{100}=$ |
| :--- | :--- |
| $\frac{63}{100}=$ | $\frac{3}{100}=$ |
| $\frac{40}{100}=$ | $\frac{1}{5}=$ |



The school received 100 books for the Book Fair. It sold 43 books.
What is the ratio of books sold to books received? $\qquad$
What percentage of books sold? $\qquad$

## Probability

Probability is the ratio of favorable outcomes to possible outcomes of an experiment.


## Example:



| Vehicle | Number Sold |
| :--- | :---: |
| 4 door | 26 |
| 2 door | 18 |
| Sport | 7 |
| Van | 12 |
| Wagon | 7 |
| Compact | 5 |
| Total | 75 |

This table records vehicle sales for 1 month. What is the probability of a person buying a van?
number of vans sold $=12 \quad$ total number of cars $=75$
The probability that a person will choose a van is 12 in 75 or $\frac{12}{75}$.
Directions: Look at the chart of flowers sold in a month. What is the probability that a person will buy each type of flower?

| Roses |  |
| :--- | :--- |
| Tulips |  |
| Violets |  |
| Orchids |  |
| T |  |

How would probability help a flower store owner keep the correct quantity of each flower in the store?

## Using Calculators to Find Percent

A calculator is a machine that rapidly does addition, subtraction, multiplication, division, and other mathematical functions.

## Example:

Carlos got 7 hits in 20 "at bats."

$$
\frac{7}{20}=\frac{35}{100}=35 \%
$$

To use a calculator:
Step 1: Press 7.
Step 2: Press the $\div$ symbol.
Step 3: Press 20.
Step 4: Press the = symbol.
Step 5: 0.35 appears. 0.35 = 35\%.


Directions: Use a calculator to find the percent of hits to the number of "at bats" for each baseball player. Round your answer to two digits. For example, if your calculator displays the answer 0.753 , round it to 0.75 or $75 \%$.

| Player | Hits | At Bats | Percent |
| :--- | :---: | :---: | :---: |
| Carlos | 7 | 20 | $35 \%$ |
| Troy | 3 | 12 | - |
| Sasha | 4 | 14 | - |
| Dan | 8 | 18 | - |
| Jaye | 5 | 16 | - |
| Keesha | 9 | 17 | - |
| Martin | 11 | 16 | - |
| Robi | 6 | 21 |  |
| Devan | 4 | 15 |  |

Who is most likely to get a hit? $\qquad$

## Finding Percents

Find percent by dividing the number you have by the number possible.

## Example:

15 out of 20 possible: $\frac{0.75}{2 0 \longdiv { 1 5 . 0 0 }}=75 \%$ $-140$

100
100
Annie has been keeping track of the scores she earned on each spelling test during the grading period.

Directions: Find out each percentage grade she earned. The first one has been done for you.

| Week | Number <br> Correct | Total Number <br> of Words | Score in <br> Percent |
| :--- | :---: | :---: | :---: |
| 1 | 14 | (out of) | 20 |
| 2 | 16 | 20 | $70 \%$ |
| 3 | 18 | 20 | - |
| 4 | 12 | 15 | - |
| 5 | 16 | 16 | - |
| 6 | 17 | 18 | - |
| Review Test | 51 | 60 |  |

If Carmen scored $5 \%$ higher than Annie on the review test, how many words did she get right?

Carrie scored $10 \%$ lower than Carmen on the review test.
How many words did she spell correctly?
Of the 24 students in Annie's class, $25 \%$ had the same score as Annie.
Only $10 \%$ had a higher score. What percent had a lower score?
Is that answer possible?
Why? $\qquad$

## Locating Points on a Grid

To locate points on a grid, read the first coordinate, and follow it to the second coordinate.

Example:
C, 3

Directions: Maya is new in town. Help her learn the way around her new neighborhood. Place the following locations on the grid below.
Grocery

C, 10
Home
B, 2
School
A, 12
Playground
B, 13
Library D, 6
Bank
G, 1
Post Office
E, 7
Ice-Cream Shop
D, 3


## Graphs

A graph is a drawing that shows information about changes in numbers.
Directions: Use the graph to answer the questions.

## Line Graph

Temperatures for One Year


Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.
Which month was the coldest?
Which month was the warmest? $\qquad$
Which three months were 40 degrees?
How much warmer was it in May than October?
$\qquad$

Bar Graph


How many home runs did the Green team hit?


How many more home runs did the Green team hit than the Red team and Blue team combined? $\qquad$

## Graphs

Directions: Read each graph, and follow the directions.
List the names of the students from the shortest to the tallest.

1. $\qquad$ 4.
2. $\qquad$ 5.
3. $\qquad$ 6.

$\qquad$
$\qquad$
$\qquad$

List the months in the order of the most number of outside recesses to the least number.

1. $\qquad$ 6. $\qquad$
2. $\qquad$ 7. $\qquad$
3. $\qquad$ 8. $\qquad$
4. $\qquad$ 9. $\qquad$
5. $\qquad$ 10. $\qquad$ List how many lunches the students bought each
day, from the day the most were bought to the least.
$\qquad$ 4. $\qquad$
6. $\qquad$ 5. $\qquad$
7. $\qquad$
Days of Outside Recess


## Graphs

Directions: Complete the graph using the information in the table.


Abstract Noun: A noun that names something that cannot be touched or seen, such as an idea, a thought, or a feeling.
Addition: The process of putting together two or more numbers to find the sum.

Adjective: A word that describes a noun or pronoun, telling which one, what kind, or how many.
Adverb: A word that describes a verb, adjective, or other adverb, telling how, when, where, how often, or in what manner.
Alliteration: The repetition of a certain consonant sound in a group of words.
Analogy: A way of comparing items to show how they are related.
Angle: The shape formed by two rays with the same end point.
Antecedent: A noun to which a pronoun refers.
Antonym: A word with the opposite meaning of another word. Example: hot and cold.
Appositive: A word or words that gives the reader more information about a previous noun or pronoun. Example: My teacher, Ms. Wright, gave us a test.
Area: The number of square units in a figure.
Author's Purpose: The reason why an author writes, such as to inform, to entertain, or to persuade.
Bibliography: A list of all books and magazines used to write an article.
Biography: A book written about the life of a person by another person.
Body: The middle paragraphs of a report that contain the main substance of the information, examples, and supporting details.
Calculator: A machine that rapidly does addition, subtraction, multiplication, division, and other mathematical functions.
Cause: An event or reason that has an effect on something else.
Celsius: A measurement of temperature in the metric system using units called degrees Celsius.
Centimeter (cm): A metric measurement of length equal to $\frac{1}{100}$ of a meter. There are 2.54 centimeters in an inch.
Circumference: The distance around a circle.
Classifying: Putting items into categories based on similar characteristics.
Clause: A group of words with a subject and a verb.

Comma: A punctuation mark that tells a reader where to pause when reading a sentence.
Command: A sentence that orders someone to do something. It ends with a period (.) or exclamation mark (!).
Common Noun: A noun that names a nonspecific person, place, or thing.
Comparative: A form of adjective or adverb used to compare things.
Examples: Adjective—quick, quicker; adverb—quickly, more quickly
Compound Predicate: A predicate with two or more verbs joined by a conjunction.
Compound Subject: A subject with two or more nouns or pronouns joined by a conjunction.
Comprehension: Understanding what is seen, heard, or read.
Conclusion: The final one or two paragraphs of a report that sum up the main ideas and restate any conclusions the writer has drawn as a result of research.

Concrete Noun: A noun that names something that can be touched or seen.
Cone: A space figure having one circular surface, one flat face, and one vertex.

Congruent Figures: Figures having identical shapes but different orientations, that is, facing in different directions.
Conjunction: A word used to join words or groups of words in a sentence or to combine sentences. Examples: and, or, but, and because
Consonants: Letters in the alphabet that are not vowels.
Context: The rest of the words in a sentence or the sentences before or after a word that help show its meaning.
Context Clue: A way to determine the meaning of new words by relating them to other words in the sentence.
Cube: A space figure with six square faces.
Cup (c.): A measurement of capacity equal to 8 fluid ounces.
Cylinder: A space figure with a curved surface and two parallel bases that are identical circles.

Decimal: A number with one or more places to the right of a decimal point, such as 6.5 or 2.25 .

## GLOSSARY

Demonstrative Adjective: An adjective that identifies a particular person, place or thing. Examples: this, these, that, and those
Denominator: The number below the fraction bar in a fraction.
Descriptive Sentence: A sentence that gives readers a vivid image and helps them imagine a scene clearly.
Diameter: A line segment that passes through the center of a circle and has both end points on the circle.
Dictionary: A reference book that lists words in alphabetical order and gives their definitions, pronunciation, and parts of speech. Some dictionaries provide illustrations and further information about words.
Digraph: Two letters pronounced as one sound. Examples: sh—shell, ch— chew, th-thin
Direct Address: A noun or pronoun that names or refers to the person addressed. Example: John, are you ready yet?
Direct Object: A word that follows a verb and completes its meaning. Example: I called Mary.
Dividend: The number that is divided by another number (the divisor) in a division problem. In the problem $28 \div 7=4$, 28 is the dividend.
Division: The process of dividing a number into equal groups of smaller numbers.

Divisor: The number by which another number (the dividend) is divided in a division problem. In the problem $28 \div 7=4,7$ is the divisor.
Editing: Revising and correcting written work.
Effect: An event that results from a cause.
Encyclopedia: A set of reference books or an online resource that provides information about different subjects in alphabetical order.
Estimate: To give an approximate rather than an exact answer.
Exclamation: A sentence that shows strong feeling or excitement. It ends with an exclamation mark (!).
Fact: Information that can be proven true.
Factors: The numbers multiplied together to give a product.
Fahrenheit: A measurement of temperature using units called degrees
Fahrenheit.

Fiction: Books that are not based on facts or real events.
Fluid Ounce (fl. oz.): A measure of capacity equal to $\frac{1}{8}$ of a cup.
Following Directions: Doing what the directions say to do, step by step, in the correct order.
Foot (ft.): A measurement of length equal to 12 inches.
Fraction: A number that names part of a whole. It is usually shown as one number (the part) above a second number (the whole), with a horizontal line between. Examples: $\frac{1}{2}$ and $\frac{1}{4}$
Fragment: A sentence that does not contain both a subject and a predicate.
Future-Tense Verb: A verb that tells about something that will happen in the future.
Gallon (gal.): A measurement of capacity equal to 4 quarts.
Geometry: The branch of mathematics that has to do with points, lines, and shapes.
Gram (g): A metric measurement of weight. I,000 grams =I kilogram.
Graph: A drawing that shows information about changes in numbers.
Greatest Common Factor (GCF): The largest number that is a factor of every number in a given set of numbers. Example: The greatest common factor of 9 , 15 , and 27 is $3(3 \times 3=9,3 \times 5=15$, and $3 \times 9=27)$, while the GCF of 9,15 , and 25 is 1 .
Guide Words: Words that appear at the top of a dictionary page to indicate the first and last words, alphabetically, found on that page.
Haiku: A three-line, unrhymed Japanese verse with five, seven, and five syllables.
Helping Verb: A verb used to support another verb. Examples: is helping; are working
Homographs: Words that have the same spelling but different meanings and pronunciations.
Homophones: Words that are pronounced the same but are spelled differently and have different meanings.
Idiom: A figure of speech that has a meaning different from the literal one.
Improper Fraction: A fraction in which the numerator is greater than its denominator.
Inch: A measurement of length. 12 inches $=1$ foot.

Indefinite Adjective: An adjective that does not identify a particular person, place, or thing, but rather a group or number.
Indefinite Pronoun: A pronoun that ends with body, one, or thing. Examples: all, any, both, and many
Index: The section in the back of an encyclopedia or nonfiction book that indicates the page number and/or volume where information on a specific topic can be found.
Indirect Object: Words that come between the verb and the direct object. Indirect objects tell to whom or for whom something is done. Example: She cooked me a great dinner.
Interrogative Adjective: An adjective that is used when asking a question. What and which are interrogative adjectives.
Interrogative Pronoun: A pronoun that is used when asking a question, such as who, what and which.
Intransitive Verb: A verb that can stand alone in the predicate because its meaning is complete.
Introduction: A paragraph at the beginning of a report that states the main parts to be covered in the report.
Inverted Pyramid: A style of newswriting that places the most important facts at the beginning of the article.
Irregular Verb: A verb that changes completely in the past tense. Example: eat-ate.
Kilogram (kg): A metric measurement of weight equal to l,000 grams.
I kilogram = about 2.2 pounds
Kilometer (km): A metric measure of distance equal to l,000 meters or about ${ }_{8}^{5}$ mile.
Lantern: A five-line Japanese verse in the shape of a lantern. Each line must contain a specific number of syllables.
Least Common Denominator (LCD): The least common multiple of the denominators in a given set of fractions.
Least Common Multiple (LCM): The smallest number other than 0 that is a multiple of each number in a given set of more numbers. Example: The least common multiple of 3,5 , and 6 is $30(3 \times 10,5 \times 6,6 \times 5)$.
Library Catalog: A listing on separate index cards or in a computer file of all the books, DVDs, CDs, etc., in a library collection. Materials are listed by title,
by author, and by subject.
Like Fractions: Fractions with the same denominator, or bottom number.
Line: A collection of points on a straight path that goes on and on in opposite directions.
Linking Verb: A verb that links a noun or adjective in the predicate to the subject.
Liter (L): A metric measurement of capacity equal to about I quart.
Main Idea: The most important idea, or main point, in a sentence, paragraph, or story.
Metaphor: A direct comparison between two unlike things that doesn't use the words like or as. Example: She was a frightened mouse.
Meter (m): A metric measurement of length equal to 39.37 inches.
Mile (mi.): A measurement of distance equal to $\mathrm{I}, 760$ yards.
Milliliter (mL): A metric measurement of capacity. I,000 milliliters = I liter.
Millimeter (mm): A metric measurement of length equal to $\frac{1}{1000}$ of a meter. 10 millimeters = I centimeter.
Mixed Number: A number written as a whole number and a fraction.
Multiple: The product of a specific number and any other number. Example:
The multiples of 2 are $2(2 \times \mathrm{I}), 4(2 \times 2), 6,8,10, \mathrm{I} 2$, and so on.
Multiplication: The process of quickly adding a number a certain number of times.
Narrative: A spoken or written account of an actual event.
Newswriting: A style of writing used by newspaper reporters and other journalists who write for periodicals.
Nonfiction: Books based on facts or events that actually occurred.
Noun: A word that names a person, place, or thing.
Numerator: The number above the fraction bar in a fraction.
Object of a Preposition: A noun or pronoun that follows a preposition and completes its meaning.
Opinion: Information that tells what someone thinks or believes about something or someone.
Ounce (oz.): A measurement of weight. 16 ounces = I pound.

## GLOSSARY

Outlining: A way to organize information in preparation for writing a paper or a report.
Paragraph: A group of related sentences about a topic.
Past-Tense Verb: A verb that tells what already happened.
Percent: A ratio that means "per hundred."
Perimeter: The distance around an object found by adding the lengths of the sides.
Periodicals: Newspapers, magazines, and newsletters that are published regularly.
Personal Narrative: Tells about a person's own experiences.
Personification: A figure of speech in which an object or animal is given human qualities. Example: The wind sighed and moaned.
Pi ( $\square$ ): A symbol representing a number equal to approximately 3.14.
Pint (pt.): A measurement of capacity equal to 2 cups.
Place Value: The value of a digit as representing ones, tens, hundreds, and so on, according to its position, or place, in a number.
Point of View: The attitude someone has about a particular topic as a result of his or her personal experience or knowledge.
Possessive Adjective: An adjective that shows ownership. Examples: our, your, her, his, its, my, and their
Possessive Pronoun: A pronoun that shows ownership. Examples: his, theirs, and its

Pound (lb.): A measurement of weight equal to 16 ounces.
Predicate: The part of the sentence that tells what the subject does, did, or is doing.
Prefix: A syllable added to the beginning of a word that changes the word's meaning.
Preposition: A word that comes before a noun or pronoun and shows the relationship of that noun or pronoun to other words in the sentence.
Prepositional Phrase: Includes a preposition and the object(s) of the preposition.
Present-Tense Verb: A verb that tells what is happening now.
Prime Number: A positive whole number that can be divided evenly only by itself or one.

Prior Knowledge: What one already knows.
Prism: A space figure with two identical, parallel bases.
Probability: The ratio of favorable outcomes to possible outcomes of an experiment.
Product: The quantity that results from multiplying two or more numbers.
Pronoun: A word used in place of a noun. Examples: Wanda-her, Brianhim
Proofreading: Carefully checking over what has been written for spelling, grammar, punctuation, and other errors.
Proper Noun: A noun that names a specific person, place, or thing.
Pyramid: A space figure whose base is a polygon and whose faces are triangles with a common vertex-the point where two rays meet.
Quart (qt.): A measurement of capacity equal to 4 cups or 2 pints.
Question: A sentence that asks something. It ends with a question mark (?).
Quotation Marks: Punctuation marks used to identify a person's exact words used in a sentence.
Quotient: The answer found by dividing one number by another number.
Radius: A line segment with one end point on the circle and the other end point at the center.
Ratio: A comparison of two quantities.
Ray: A part of a line with one end point that goes on and on in one direction.
Recalling Details: Being able to pick out and remember the who, what, when, where, why, and how of what has been read.
Rectangle: A figure with four equal angles and four sides, with the sides opposite each other of equal length.
Rectangular Prism: A space figure with six sides, or faces, all of which are rectangles.
Reference Sources: Nonfiction books and other materials that provide facts and information.
Relative Pronoun: A pronoun that refers to the nouns which come before it. Examples: who, whom, which, and that
Remainder: The number left over in the quotient of a division problem.
Report Writing: Researching and collecting information about a particular topic and writing about it.

Request: A sentence that asks someone to do something. It ends with a period (.) or question mark (?).
Rhyming Words: Words that share the same vowel sound in their last syllables. Example: cane and explain
Root Word: The common stem that gives related words their basic meanings.
Example: The root word of arrangement is arrange.
Rounding: Expressing a number to the nearest ten, hundred, thousand, and so on. Examples: round 18 up to 20 ; round $I I 3$ down to 100 .
Run-on Sentence: Two or more sentences that are joined together without correct punctuation.
Segment: A part of a line having two end points.
Sentence: A group of words that expresses a complete thought.
Sequencing: Placing events or objects in the correct order.
Similar Figures: Figures having the same shape but different sizes.
Simile: A comparison using the words like or as. Example: She looked as frightened as a mouse.
Skimming: To read quickly, looking for headings and key words, in order to identify the overall idea of the material's content or to find a particular fact.
Space Figures: Figures whose points are in more than one plane.
Sphere: A space figure with no flat surface. All points are an equal distance from the center.
Square: A figure with four equal sides and four equal angles.
Statement: A sentence that tells something. It ends with a period (.).
Subject: The part of a sentence that tells whom or what the sentence is about.
Subtraction: The process of taking away one number from another. It is used to find the difference between two numbers.
Suffix: A syllable at the end of a word that changes its meaning.
Summarizing: Writing a short report containing only the main points found in an article, book, or speech.
Summary: A short description of what a selection or book is about.
Superlative: A form of adjectives or adverbs that compare by pointing out the most extreme case. Examples: tallest, softest, most important
Supporting Sentences: The sentences in a paragraph that follow the topic
sentence and provide details about the topic.
Syllable: A word part with only one vowel sound.
Symmetrical Figure: A figure that can be divided equally into two identical parts.
Synonym: A word that means the same or nearly the same as another word. Example: jump and hop.
Taking Notes: The process of writing important information from a story, article, or lecture that can be used later when writing a report or taking a test.
Tall Tale: A fictional story with exaggerated details.
Thesaurus: A type of reference book that lists words in alphabetical order followed by their synonyms and antonyms. Some types of thesauri also list idioms, related words, examples, and other information.
Ton (tn.): A measurement of weight equal to 2,000 pounds.
Topic Sentence: The sentence that tells the main idea of a paragraph.
Transitive Verb: A verb that needs a direct object to complete its meaning.
Triangle: A figure with three sides and three angles.
Unlike Fractions: Fractions with different denominators, or bottom numbers.
Venn Diagram: A diagram used to chart information comparing two things, showing their similarities and differences.
Verb: The action word in a sentence that tells what the subject does or that it exists.
Volume: The number of cubic units inside a space figure.
Vowels: The letters $a, e, i, o, u$, and sometimes $y$.
Word Family: A group of words based on the same word. Example:
play-playful, playground, playing
Yard (yd.): A measurement of distance equal to 3 feet.

## ANSWER KEY

## Spelling: Digraphs

A digraph is two consonants pronounced as one sound
Examples: sh as in shell, ch as in chew, th as in thin
Directions: Wirte sh, ch or th to complete each word below.


Directions: Complete these sentences with a word, or form of the word, from the
list above

1. A trip to the South Pole would really be $a(c h)$ challenge
2. The ice there never ( $\mathbf{t h}$ ) thaws because the temperature averages $-50^{\circ} \mathrm{C}$.
3. How can any living thing (th) thrive_or even live when it's so cold?
4. With 6 months of total darkness and those icy temperatures, any plants would soon (sh) perish
5. Even the thought of that numbing cold makes me (sh) shiver
6. The cold and darkness (th) threaten the lives of explorers
7. The explorers take along maps and (ch) Charts to help them find their way.
8. Special clothing helps protect and (sh) shield them from the cold.
9. Still, the weather must be a (sh) shock at first.
10. Did someone leave a door open? Suddenly, Ifeel a (ch) Chill

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## Spelling: The $J$ and $C h$ Sounds



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Spelling: Words with Silent Letters
Some lefters in words are not pronounced, such as the $\mathbf{s}$ in island, the $\mathbf{t}$ in listen, the $\mathbf{k}$
in $\mathbf{k}$ nee, the $\boldsymbol{h}$ in hour, and the $\mathbf{w}$ in write.
Directions: Use words from the box to complete the exercises below.

\section*{| $\begin{array}{c}\text { winkled } \\ \text { rhyme }\end{array}$ | $\begin{array}{c}\text { honest } \\ \text { exhaust }\end{array}$ | $\begin{array}{l}\text { aile } \\ \text { gilsten }\end{array}$ | $\begin{array}{l}\text { knife } \\ \text { knowledge }\end{array}$ | $\begin{array}{l}\text { wists } \\ \text { wrestle }\end{array}$ |
| :--- | :--- | :--- | :--- | :--- |}

1. Witte each word beside its slient lefter. Two words have two silent letters-wite them twice,
s. aisle
${ }^{\mathrm{t}}$ _ glisten wrestle
n honest rhyme exhaust
w wrinkled wrist wrestle knowledge
k knife knowledge
2. Write in the missing letter or lefters for each word.
$\underline{\mathrm{W}}$ res $\underline{\mathrm{t}}$ le ex $\underline{\mathrm{h}}$ aust $\underline{\mathrm{K}}$ nife glis $\underline{\mathrm{t}}$ en ai $\underline{\mathrm{S}}$ le
$\underline{\mathrm{k}}$ nowledge $\underline{\mathrm{W}}_{\text {rinkle }} \quad \mathrm{r} \underline{\mathrm{h}}$ yme $\underline{\mathrm{h}}_{\text {onest }} \quad \underline{\mathrm{W}}_{\text {rist }}$
Directions: Complete each sentence with a word that has the given silent letter. Use
each word only once.
3. He always tells the truth. He's very (h) honest 2. 1 like (s)__ aisle_seats in airplanes. 3. Ineed a sharper $(\mathbf{k})$ knife to cut this bread. 4. I think a long hike might (h) exhaust me. 5. Did you sleep in that shirt? It is so (w) Wrinkled ! 6. The snow seemed to (t) ___glisten__ in the sunlight 7. To play tennis, you need a strong $(\mathbf{w}) \quad$ wrist

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Writing: Sounding Out Syllables

Order of answers may vary.
3. Beside each word below, write $a$ word with the same number
of syllables. Use each word from the box only onge.

| daily | pressure | challenging | subtraction |
| :---: | :---: | :---: | :---: |
| syllable | decision | election | confusion |
| decreasing | division | threaten | social |
| advantage | addition | shivering | correction |
| title | ancient | experimenting | multiplication |



## ANSWER KEY



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## ANSWER KEY



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## ANSWER KEY



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## Metaphors

A metaphor is a direct comparison between two thing
The words like or as are not used in a metapho
Example: The sun is a yellow ball in the sky.

Directions: Underline the metaphor in each sentence.
Directions: Underline the metaphor in each sentence.
Write the two objects being compared on the line.
As it bounded toward me, the dog was a quivering
furball of excitement.
dog/furball of excitement
2. The snow we skied on was mashed potatoes.

3. Diego is a mountain goat when it comes to rock climbing.

Diego/mountain goat
4. The light is a beacon shining into the dark basement
light/beacon
5. The famished child was a wolf. eating for the first time in days.
famished child/a wolf
6. The man's arm was a tireless lever as he fought to win the
arm/tireless lever
7. The flowers were colorful polkadots against the green of the yard. flowers/colorful polkadots

Page 38 Example:

Dad is in the doghouse because he was
late for dinner.
Meaning: Dad is in trouble because
Meaning: Dad is in trou
he was late for dinner. very nervous
2. It was raining cats and dogs.
raining very hard
3. My friend and I decided to bury the hatchet after our argument.
make peace
4. He gave me the cold shoulder when I spoke to him
ignored
5. My mom blew up when she saw my poor report card.
got angry
6. I was on pins and needies before my skating performance.
anxious; nervous
Why aren't you speaking?
8. The city rolled out the red carpet for the returning Olympic champion
welcomed
put everyone at ease

## Review

An idiom is a figure of speech that has a meaning different from the literal one.

Directions: Wite the meanings of the idioms in bold.

1. He was a bundle of nerves waiting for his test scores. Answers will vary.

Directions: Circle the word or phrase that best defines the bold words.

1. The woman has a very pleasant voice.

strange
 He had a very imaginative excuse for not turning in his homework.
creative difficult to believe acceptable
2. I didn't get credif for my answer on the test because it was incomplete.
not correct too short not finished
3. Will you wind the music box for the baby?

$$
\frac{\text { air in motion }}{\text { tightoll }} \text { injury in which the skin is broke }
$$

$$
\begin{aligned}
& \text { arifin motion } \quad \frac{\text { inujury in which }}{\text { tighten the spring by turning a key }}
\end{aligned}
$$

7. When the student didn't answer, the teacher asked, "Did the cat get your tongue?"
8. They hired a clown for the young boy's birthday party to help break the ice.

To enroll in the school, you must bring your birth certificate or some other legal
5. To enrilin the school, you must bring your birth centificate or
record for identification.
to keep an account a flat disk that plays music
to keep an account
witten or official evidence
6. We use the crystal pitcher when we have company. printed likeness of a person or object
baseball team member container for pouring)
7. This block is as light as a feather!
very heavy notheavy at all bright
8. The whole family was there when Bill and Lynn tied the knot last weekend.
were caught in a trap bought a house got maried
9. I will have to foot the bill for the damage you caused
kick pay for seek payment
10. Madison lost her cool when the party was called off.
got angry had a fever went home
11. The kite soared like an eagle.
flapped and fultered $\quad$ glided along high in the air)
crashed to the ground

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## ANSWER KEY



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Using a Dictionary
Guide words ore the words that a
firist and last words on each page.
Directions: Read the guide words on each dictionary page below. Then, look around
for objects whose names come between the guide words. Write the names of the
objects, and then number them in alphabetical orde.


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## Using a Dictionary: Multiple Meanings

Directions: Use the dictionary entry below to answer the questions about the word record Re-cord v . (ti kord') $\mathbf{1}$. a) to put in werliting, print, etc. for
future use: draw up an account of (to record the day's future use: draw up an account of (to record the day's
events); b) to make a permanent or official note of (to record a vote) 2. a) to indicate automatically or
permanently, as on a graph or chart (a seismogra permanently, as on a graph or chart (a seismograph records earthauakes), b) to show, as on a dial ( (a
thermometer records temperatures) 3 . to remain as evidence of (metal tools record a superior clivilization)
4. a) to register (sound or visual images) in some perm 4. a) to register (sound or visual images) in some permanent
form, such as digitally or on a phonograph disc, magnetic t form. such as algntily or on a phonograph disc., magnetlic tap
etc. for reproduction on a playback device: b ) to register the performance of (a musician, actor, composition, tet.) in this
way. (for $n$ \& \&adi. rek' erd) $\mathbf{5}$. an account of facts preserved, esp. in writing 6 . information or knowledge about a person's achievements or performances 7 . standing with respect to contests, won, lost, and tied 8. The best performance of its kind
to date $\mathbf{9}$ something, as in a disk, on which sound or images have ben recorded $\mathbf{1 0}$. adj. surpassing all others.

IO; verb, noun, adjective
2. Including all the subheadings, how many definitions are listed? 13
3. Which definition uses the example of a thermometer recording a temperature? 2 b
4. Which definition describes a record you might play to listen to music? $\quad 9$
S. 1 record used as a noun or a verb in this sentence?
noun
. Is record used as a noun or a verb in this sentence?
I will record our conversation $\qquad$ verb


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Using a Dictionary: Choosing the Correct Word
Directions: Use a dictionary to look up the words in parentheses. Then, witte the correct
word in the blanks.


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## Using a Thesaurus

 A thesaurus is a type of reference book that lists words in alphabetical order followed bytheir synonyms and antonyms. Synonyms are words that mean the same. Antonyms are
words that mean the opposite. words that mean the opposite.
A thesaurus is an excellent tool for finding just the right word. II is also a valuable
resource for finding a variety of synonyms and/or antonyms to make your witi resource for finding a variety of synonyms and/or antonyms to make your witing livelier. Each main entry in a thescurus consists of a word followed by the word's part of speech,
tis its definition, an example, a list of related words, and other information. You can also find
several thesauuses online. severa thesauruses onine

sLow
ADJ SYI
ADJ SYN deliberate, diliatory, laggard, leisurely, unhasty, unhuried
REL lateness, limited, measured, slowish, steady, unhurrying, slowfooted plodding, pokey, stragaling, snail-like IDIOM as slow as molasses
in January, as slow as a turile


Directions: Use the thesaurus entry to answer the questions.,

1. What is the antonym listed for slow? $\qquad$ fast
2. How many contrasting words are listed for slow? $\qquad$ 4 le 4. What is slow compared to in the two idioms isted? molasses; a turtle 5. What is the last related word listed for slow? snail-like

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## Learning New Words

Directions: Witte a word from
bok up words you are unsure


1. He was knocked unconscious by the blow to his head.
2. Megan never let her_disability_ stand in the way of accomplishing what she wanted.
3. The teacher burst into the noisy room and demanded to know what all the
commotion was about.
4. He offered her a bouquet of flowers as a truce after their argument. 5. The zoo was in the process of building a new enclosure for the elephants. 6.The mother was hovering over her sick child.
5. The movie was meant to ___ inspire_people to do good deeds. 8. My friend will eventually inherit a fortune from his grandmother. 9. Not many people enjoy having someone_Criticize_their work. 10. The female leopard led the ___ assault on the herd of zebras.


## Using a Thesaurus to Find Synonyms

 Athesaurus can help you find synonymsExample:
Directions: Use a thescurus. Replace each word
in bold with a synonym. Answers will vary. Possible answers:

1. My father does not like our arrincial cnnstmas tree.
fake
2. The fabulous home sat on a large hill overlooking a wooded ravine
wonderful
3 My dog is allowed to be loose if someone is home
free
3. A peaceful rally was held to bring attention to the needs of the homeless.
nonviolent
4. The arist completed his sketch of the girl.
drawing
6.The timid boy could not bring himself to speak to the man at the counter
shy
5. My family is cutting down the timber af the back of our property
trees
6. Her necklace was very attractive.
appealing
7. The girl looked hopelessly at her clothes and moaned that she had nothing to wear. garments
8. The team's feat of winning 20 games in a row was amazing.
accomplishment

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## ANSWER KEY

## Answers will vary. Possible answers:

Using a Thesaurus
Directions: Use a thesaurus to list as many synonyms as possible for the following words

1. calm placid, serene, tranquil, peaceful
2. hunt chase, stalk, pursue
3. quilt bed cover, blanket, coverlet, comforter
4.tender gentle, kind, affectionate
4. vacate abandon, evacuate, leave, quit

Directi
words.
6. value importance, goodness, measurement
7. difference unconformity, deviation, change, inequality 8. enable empower, allow, permit

Directions: Use a thesaurus to list one idiom for each of the following words.
9. beauty Beauty is only skin deep.
10. cake You can't have your cake and eat it too.


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Using a Thesaurus to Find Antonyms Antonyms are words that mean the opposite. Antonyms
thescuruses. They are identified by the abbreviation ANT

## Examples:

Examples:
Found:
VERB ANT
RIDDLE:
RIDDLE:
NOUN AN
ANCIENT:
ADJECTIVE
Directions ANT new, recent, current, etc.
Directions: Use a thesaurus to replace each word in bold with an antonym
dry Answers will vary.
take 1. Today's weather will undoubtedly be very humid
complimented 2. Can you give my sister a napkin?

## strict

 4. I thought the rules for the classroom were too lax.painless - 5. The broken leg was quite painful.
$\begin{array}{lll}\frac{\text { delay }}{\text { punishment }} & \text { 6. We made great progress last night on the parade floa } \\ \text { 7. The girl received a reward for returning the lost wallet. }\end{array}$
combine 8. The teacher asked us to separate the types of art brushes.
complicated 9. The home was decorated in a simple manner.
relaxed 10 . They became very tense during the earthquake.
yesterday 11. Mr. Kurtzman gave us a math test today.
Valleys 12. My father loves hiking in the hills.
old 13. Stephen ran over my new red bike.
$\qquad$

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## Comprehension: Word Origins

Did you ever wonder why we call our midday meal "lunch"? Or where the name
Abraham" came from? Or why one of our lovely eastern states is called "Vermont"? These and other words have a history. The study of where words came from and how they began is called etymology (ett-a-mol-o-gee). The word lunch comes trom the Spanish word longja which means "a sice of ham."
Long ago, Spanish people ate a silice of ham for their midday meal. Eventually what they ate became the word for the meal itself. Still later, it came to be pronounced "lunch" in English.
Abraham also has an interesting history. Originally, it came from the Hebrew word
avarahem. Abraham means "father of many".
City and state names are often based on the names of Native American tribes or lescribe the geography of the area. Vermont is actually made from two french words. Vert is French for "green." Mont is French for "mountain.
Directions: Answer these questions about word origins.

1. What is the study of the history and origin of words? etymology
2. From which language did the word lunch come? Spanish

What is the French word for "green"?


Vermont comes from two words of what language?
$\square$ spanish $\quad \square$ English $\quad \boldsymbol{X}$ french
5. Which is not correct about the origin of names of cities and states? $\quad \mathrm{W} \xrightarrow[\mathrm{S}^{4}]{\stackrel{N}{4}} \mathrm{E}$
$\square$ They describe geography
$\square$ They name Native American tribes.

A They are mostly French in origin.


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## Classifying



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## ANSWER KEY

## Classifying: Regional Forecast

The very warm, early spring weather will continue to spread along the East Coast today. With some sunshine, afternoon temperatures will climb to 90 degrees in many
places. COumbia, South CCarolina, and neighboring areas sould reach 100 degrees.
Showers Showers are expected from Washington, D.C., to New York City. Severe thunderstorms are
likely in Virginica and North Carolina. Central South Carolina will be under a tomado watch during the afternoon.
Cities
Columbia
Washington, D.C.
New York City

States
South Carolina
Virginia
North Carolina

## Weather Conditions

showers
severe thunderstorms
tornado watch
warm, sunny weather


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Page 61
Part/Whole and Cause/Effect Analogies



## Analogies

has beens done for you. Andits on the blanks to complete each analogy. The first one has been done for you. Answers will vary. Possible answers:

1. Fuse is to firecracker as wick is to candle
2. Wheel is to steering as brake
3. Scissors are to $\qquad$ cut as is to stopping. 4. Water is to skiing as rink is to skating 5. Steam shovel is to dig as tractor is to plow 6. Stick is to hockey as bat_is is to baseball. 7. Watch is to television as listen__ is to radio.
$\qquad$ _ is to baseball. 8. Geese_are to goose as children are to child. 9. Multiply is to multiplication as subtract is to subtraction. 0. Milk is to cow as egg is to $\qquad$ red is to tomato 1. Yellow is to banana as $\qquad$ 2. $\frac{\text { Fast }}{\text { 3. Pine is to tree as }}$ is to slow as day is to night. 3. Pine is to tree as daisy is to flower. 5. Museum is to painting as library is to book 6. Petal is to flower as branch is to __ tree
$\qquad$ 8. Dresser is to bedroom as stove 8. Dresser is to bedroom as stove_is to kitchen 9. Teacher is to student_hot as doctor is to patient. 20. Ine is to cold as fire is to hot hot

## Synonym and Antonym Analogies

Analogies are a way of comparing items to show how they are related. Analogies can
show different types of relationships. Two relationships andiol show different types of relationships. Two relationships analogies might show are synonyms
or antonyms. or antonyms.
Examples:
Examples:
Antonyms: hot is to cold as happy is to sad
Synonyms: happy is to glad as run is of jog
You can write an analogy this way:
You can wirte an analo
slow : fost $:$ I up dow
You sed
You read it this way:
Slow is to fast as up is to down.
Directions: Write $\mathbf{S}$ for synonym or $\mathbf{A}$ for antonym in the
blanks in front of each analogy. Then, complete the

| life <br> above | run <br> feline | comforter <br> play | fail <br> drape | phootograph <br> different |
| :--- | :--- | :--- | :--- | :--- |

S 1. dog : canine :: cat: feline
S 2.coat: parka:: curtain : drape
A 3.asleep: awake :: work: play
A 4.ground: sky :: below: above
A 5. freeze: thaw :: stroll: run
S b.dangerous: : treacherous :: picture: photograph
S 7. ancient: old :: bedspread: Comforter
A ${ }^{8 . \text { win }}$ : lose :: succeed : fail
S 9.manmade : artificial :: unique : different
A 10. wealthy : poor :: death : life

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## ANSWER KEY

## Facts and Opinions

A fact is a statement based on fruth. It can be proven. Opinions are the beliefs of an
individual that may or may not be true.
Examples:
Opinion: Alaska is
Directions: Write $\mathbf{F}$ if the statement is a fact. Write $\mathbf{O}$ if the statement is an opinion
. O The Grand Canyon is the most scenic site in the United States.
2. F Dinosaurs roamed Earth millions of years ago.
3. F scientists have discovered how to clone sheep.
4. O All people should attend this fair.
5. O Purebreds are the best dogs to own because they are intelligent
6. O Nobody ikes being bald.
7. O students should be required to get straight $A^{\prime}$ 's to participate in extracuricular activities.
8. F Reading is an important skill that is vital in many careers.
9. O snakes do not make good pets.
10. F Many books have been written about animals.
11. F Thomas Edison invented the lightbulb.


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Page 72

## Reading Skills: Skimming

Skimming an article means to read quickly, looking tor headings and key words to give an overallidea of the content of an articie or to find a particular fact. When skimming tor

Directions: Skim the paragraph to answer this question.

1. What "marvel" is the paragraph about?the Grand Canyon

In America there is so much magnificent scenery.
In Americat thereres so much magnificent scenery Canyon. This canyon is in northern Arizona. It it the
deepest, widest canyon on Earth. The Grand Canyon is 217 miles 10 ng, 4 to 18 miles wide and, in some places, more than a mile deep. The rocks at the
bottom of the steep walls are at least 500 milion boltom of the steep walls are at least 500 million
years old. Most of the rocks are sandstone, limestone ynd shale. By studying these rocks, scientists know
a that this part of the world was once under the sea.
Directions: Skim the paragraph again to find the answers to these questions

1. How deep are the lowest points in the Grand Canyon?
more than a mile deep
2. How old are the rocks at the bottom of the Grand Canyon?
at least 500 million years old
3. What kinds of rocks would you find in the Grand Canyon?
sandstone, limestone, and shale
What do these rocks tell us?
This part of the world was once under the sea.


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Page 73

## Sequencing: Maps

Directions: Read the informatio
Maps have certain features that help you to read them. A compass
rose points out directions. Color is often used so you can easily see where one area (such as a county.
state. or country) stops and the state, or country) stops and the
next starts. To be accurate, a map must be drawn to scale. The scale of a map

by a gliven measurement. The scale can be small: 1 inch $=1$ mie., or farge: 1 inch
$=1,000$ miles.
symbol does not look like what it represents. Cities are often represented by dots. A map legend tells what each symbol means.
One of the best ways to learn about maps is to make one of your own. You may be
surpised at how much you learn about your neighborhood too You will need a surprised at how much you learn about your neighborhood, too. You will need a large
piece of paper, a ruler a pencil, and colored pencils. You will need to choose the area you want to map out. It is important to decide o he scale for your map. It could be small: 1 inch $=3$ feet, if you are mapping out your a flag to represent a school. Don't forget to include the symbols and other important information in your legend.

Directions: Number in order the steps to making your own map.
3 Figure out the scale that will work best for your map. $\frac{1}{}$ Obtain a large piece of paper, ruler, pencil, and colored pencilis. Obtain a large plece of paper, fuler, pencli, and - Make a legend Draw your mapl
4 Draw symbols to represent features of the area you are mapping.
2 Decide on the area you want to map out

## Following Directions



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## ANSWER KEY

Following Directions: Continents


Directions: Read the facts about the seven continents, and follow the directions. Asia is the largest continent. It has the largest land mass and the largest population. Drow a star on Asia.
3. Australia is the smallest continentinent. Write $\mathbf{a} \mathbf{2}$ on Arica. square miles tor Asia. Write $\mathbf{3 , 0 0 0 , 0 0 0}$ on Australia. Australia is no a ver That honor goes to Antarctica, which has no permanent population at alll This icecovered continent is too cold for life. Write zero on Antarctica.
5. Australia and Antarctica are the only continents entiriely separated by water. Draw
circles around Australia and Antarctica.
called Central America. Write an $\mathbf{N}$ on North America, an $\mathbf{S}$ on South America, and con Central America.
Asia and Europe are joined together over such a great distance that they are sometimes
called one continent The caled one coninent. The name given to it is Eurasia. Draw lines under the names of
,


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Page 81

## Reading Skills: News Stories

Directions: Write the answers.
Answers will vary.


1. What is the name of your dally local newspaper?

## Reading Skills: A Newspaper Index

An index is a listing in a book, mag.
where to find items or information.
 national events. local news, the weather, and sports. You will also find opinions, feature
stories advice columns comics entertainment recipes, advertisements, and more. A stories, acvice coumns, comics, enternainment, recipes, adverisements, and more. A a newspaper index. An index of the newspaper usually appears on the front page. In
an online version of a newspaper, the index appears on the paper's home page. There are usually drop-down menus that allow you to chose more specific topics within a section.
Directions: Use the newspaper index to answer the questions.

or a variety of sources?
S. Find the editorial section of your
newspaper. An editorial is the opinion of one person Write the main idea of one editorial.
$\qquad$
$\qquad$
Go online, and search for a news source intended for kids. (Some options are www. timeforkiscs.com www.dogonews.com
Write down two headilines that inferest you.

Page 82

## Reading Skills: Classified Ads

A classified ad is an advertisement found in a newspaper, online,
or in a magazine offering a product or service for sale or rent.
Example: For Sale: Used 26" 30-speed bike. $\$ 100$.
Directions: Read hese advertisements. Answer
the questions.


What is promised in the third ad? popularity and fulfillment of 2. is it fact or opinion? opinion $\qquad$
$\frac{\text { dreams }}{\text { experience }}$
3. What fact is offered in the third ad? $\mathbf{2 0}$ years coaching experien
4. Give an example of a slogan, or easy-to-remember phrase, that appears in one of
the ads. Yard work breaking your back? Give Mike
5. Which ad gives the most facts? 2
6. Which ad is based mostly on opinion? 3

## Page 84

## ANSWER KEY



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Page 86


Page 89

## Comprehension: Books and More Books!



## ANSWER KEY



Page 91

## Fact or Opinion?

Directions: Read the paragraphs below. Then, in the correspon
wite whether each numbered sentence is a fact or an opinion
Have you ever seen the show Reading Rainbow? (1) It's a show about books and Have your ever seen the show Reaaing Rainbow? (1) It sa show about books, and Is stations across the countr,
Some books that have been featured on the show are I Can Be an Oceanographer
by Paul Sipiera, Soccer Sam by Jean Marzolla, Redbird by Patrick Fort. and Miss Nelson a Field Day by Harry Allard. (3) Miss Nelson Has a Field bDay sounds like the most interesting
book of alll
(4) On R
(4) On Reading Rainbow, children give informal book reports about books they have read. (5) All the children are adorablel In about 1 minute, each child describes his or her book. (6) While the child is takiking, pictures of some of the pages trom the book are show
(7) Seeing the pictures will make you want to read the book A few books (7) Seeing the ple (
on each show. (8) Other activities include trips with LeVar to places the books tell about (9) Every child should make time to watch Reading Rainbow (10) It's a fabulous show!

1. fact
2.fact

2. opinion
3. opinion

Context Clues: Kids' Books Are Big Business


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Page 92

$\longrightarrow$
3. What is your favorite type of music? Why?
$\square$
4. If you could choose a musical instrument to play, what would it be? Why?
$\qquad$
5. Name a famous musician, and describe what you know about him or hef


Main Idea: Where Did Songs Come From?


Historians say the eariiest music was probably connected to
religion. Long ago, people believed the world was controlled by va vaiety of gods. Singing was among the first things human
did to show respect to the goods. did to show respect to the gods. Singing is stil an important part of most religions. Budahists songs in their religious ceremonies Jews all use chants and/or song-religious or otherwise-you know that singing in sun. The
feeling of $f$ oy that comes from singing must have also made ancient people feel happy.
Another time happ. Another time people sang was when they worked. Egyptian
slaves sang as they carried the heawy stones to build the pyramids.
 song gas they planted and another when they harvested. Singing . they followed instructions through songs. For example, "Yo-oh, heave hol//o-oh, heave ho
was sung when sailors pulled on a ship's ropes to lift the sails. Heave means too lift." and hat is what they did as they sang the song. The song helped sailiors work together and p the same time. Ihis made the task easie.
irections: Answer these questions about music.

1. Circle the main idea:

Singing is fun, and that is why early people liked it so much
Singing began as a way to show respect to the gods and is still an important part of most religious ceremonies,

.Besides religious ceremonies, what other activity fostered singing? People often sang as they worked.
3. When did farmers sing two different songs? when they planted and 4. How did singing "Vo-oh, heave hol" help sailors work? they harvested

It helped them work together and pull at the same time.

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Page 96
Page 97

## ANSWER KEY



Page 98

## Recalling Details: Woodwinds

There are four kinds of woodwind instruments in
nodern bands. They are futues, oboes, clarinets, and bassoons. They cre called "woodwind" instuments for
Iwo sensible reasons. In the beginning, they wers all two sensible reasons. In the beginning, they were alf
nade of wood. Also, the musician's breath, or "wind," Altho required to play them. Although they are all woodwinds, these instruments
ok different and a are played differently To lok difterent and are played differently. To play an the front of the instrument. The mouthniece. called a
kind of wood called cane. Clarinet players also blow ret has only one reed in its mouthpiece into a reed the flute, the musician blows across a hole near one end of the instrument. The
To play way the breath is aimed helps to make the fiute's difierent sounds. The bassoon is the largest
woodwind instrument. Bassoon players blow through a mouthpiece that goess through a whod mintal pirume before it goes into the body of the bassoon. It makes a very different
short meta sound from the clarinet or the oboe.
kered When the musician pushes down on a lever, it closes that hole. When he or she lifts his or her finger, it opens the hole. Different sounds are produced by controlling the amount of breath, or "wind," that goes through the holes.
Directions: Answer these questions about woodwind instruments

1. What instruments are in the woodwind section? flutes, oboes, clarinets,
2. Why are some instruments called woodwinds? At first, they were all made of wood, and the musician's breath, or "wind,"was needed to play them.
3. How is a fute e different from the other woodwinds? The way breath is
aimed makes different sounds.
4. What happens when a musician pushtes down on a woodwind key?

Different sounds are made by controlling the amount of breath that goes through the holes.
by lifting a finger on a key


Page 100

Comprehension: Brass Shows Class
 by yountike band music, vou probably love the music made
all these wordsents describe thit loud, moving, and magnificentall these words describe the sounds made by brass.
Some of the eariest instruments were horns. Mad Some of the earliest instruments were horns. Made from
hollowed-out animal horns, these primitive instruments could not possibly have made the rich sounds of modem horns tho are made of brass.
Most modern bras Most modern brass bands have three instruments-tubas,
trombones, and trumpeta produce stirining marches, as well as haunting melodies. ar hauning melodies. Philip Sousa. Born in Washington, D.C.,. in 1854 , Sousa was a
miltary band conductor and composer. He died in 1932, bu his music is still vend poppularar today. One of Soussa's most famous Unes for milltary bands is "Starars and Stripes Soreverer"
Besides composing band music, Sousa also invented a practical band instrument-the sousaphone. The sousaphone is a huge tuba that makes very low noises. Because of the way it curts around the body a sousaphone is easier to carry than a tuba, especially whe
the musician must march. This is exactly why John Philip Sousa invented itt

Directions: Answer these questions about brass instruments

1. Who invented the sousaphone? John Philip Sousa
2. What were the first horns made from? hollowed-out animal horns
3. Where was John Philip Sousa born? Washington, D.C.
4. When did John Philip Sousa die? 1932
5. Why did Sousa invent the sousaphone? Because it was easier to hold when marching.
What types of instruments make up a modern brass band? tubas,
trombones, and trumpets


Violins were new instruments during Stradivari's time. People made them in different sizes and shapes and of different types of wood. Hiradivarils said to have been very
particular about the wood he selected for his vilins. He took long walks alone int he tor paricular abut
to find lust the right tree. He is also said to have used a secret and special type of varnish to put on the wood. Whatever the reasons, his vililins are the best in the world. Stradivari put such care and love into his violins that they are still used today. Many of
them are in museums. But some wealthy musicians, who can afford the thousands and thousands of dollars they cost, own Stradivarius violins. sem tivari passed his methods on to his sons. But the secrets of making Stradivarius violins seem to have died out with the forniy, Their rarity, as well as their mellow sound, make
Directions: Answer these questions about Stradivarius violins.

1. Where did Stradivari live? northern Italy
2. Why did he begin making violins? He loved the instrument $\qquad$ 3. Why are Stradivarius violins special? Stradivari chose the wood carefully. used a special varnish, and made the violins with love and care.
3. Where can Stradivarius violins be found today? Most are in museums, but some are owned by wealthy musicians
4. How did Stradivari select the wood for his vililins? He took long walks alone in the forest to find just the right tree
5. Who else knew Stradivari's secrets for making such superior violins? his sons

## Review

## Directions: Complete the following exercises

## m

1. Write a fou

Answers will vary.
2. Describe the main difference between a clarinet and an oboe.

The oboe has two reeds in its mouthpiece, while the clarinet has only one.
How do the keys of woodwind instruments work?
The keys are like levers that, when pressed, cover the holes. This changes the sound.

Write a summary of the history of the harp.
Answers will vary.
5. Define the following words from the selection "Facts About Folk Music" (page 98).
verses: stanza of a poem or a song
excavating: making a hole or channel by digging
chariot: two-wheeled vehicle drawn by a horse
composed: created in music or writing

## ANSWER KEY

## Using Prior Knowledge: Art



Page 104

## Context Clues: Leonardo da Vinci

## Directions: Read the bold words.



1. Some people are perplexed when they look at the Last Supper, bu
It immediately.
$\square$ unhappy $\quad \square$ happy
2. Because his model fell melancholy about the death of her child, da Vinci had music
$\boldsymbol{X}_{\text {sad }} \quad \square$ unfiendly $\quad \square_{\text {hostile }}$ 3. Because da Vinci's work is so famous, many people erroneously assume that he leff
behind many paintings. In tact, he left only 20 .
behind many paintings. In fact, he left only 20.
$\square$ rightly
$\square$ correctly
$X_{\text {woray }}$
3. Leoonardo da Vinci was not like most other people. He didn't care what others thought
$\square_{\text {dull }} \quad \square_{\text {not ordinary }} \quad \square_{\text {ordinary }}$
4. The composition of The Last Supper is superb. All the parts of the painting seem to fit
together beautifully.
$\square$ the picture frame
A parts of the picture
he had few friends, and he spent much of his time alone
her

- great mental abilities
$\square$ great physical abilities
$\square$ improper way to do thing
$\square$ proper way to do things . Because he was a loner, da Vinci worried no one would come to his funeral when he
died. In his will. he set aside 70 cents each to hire 60 mourners to accompany his body
to his grave.
$X_{\text {Peopse mompogiane }}$
$\square$ people who smile

Main Idea: Creating Art
No one knows exactly when the first human created the first
painting. Crude drawings and paintings on the walls of caves painting. Crude drawings and paintings on the walls of caves
show that humans have probably always expressed themselves show that humans have probabily aways expressed thenselves
through art.These early cave pictures show animals being hunted. people dancing, and other events of daily life. The simplicity o
the paintings reflect the simple iffestyly of these primitive . important point. Art is not created out of nothing. The subjects $a$ arrist chooses to paint reflect the history, pollics, and culture of the time Which he or she lives. An artist born and raised in New York City, for example is not ilke
to paint scenes of the Rocky Mountains. An artist lving int pictures of city life.
Of course, not all paintings are realistic. Many artists choose to paint pictures that show
their $\mathbf{x}$. ${ }^{2}$ "inner vision" as opoposed to what they see with their their own "inner vision" as opposed to what they see with their eyes. Many religious paintings
of earilier centuries look reailistic but contain figures of angels. These paintings combine the of earier centuries look realistic but contain ifigures of angels. These paintings combine the
artist's inner vision of angels with other things, such as church buildings, that can be seen.
Directions: Answer these questions about creating art.

1. Circle the main idea:

Art was important to primitive people because it showed hunting and dancing scenes.
and it is still important todo
Through the ages, aristst have created paintings that reflect the culture,
history, and politics of the times, as well as their own inner visions.
2. Why is an arrist living in the Rocky Mountains less likely to paint cily scenes?

Artists tend to paint things that are a part of the time and place where they live.
3. In addition to what the artists see with their eyes, what do some paintings also show? Some paintings show an artist's inner vision

Comprehension: Leonardo da Vinci
 Many people bellieve that Leonardo da Vinci, an Italian artist
and inventor who lived from 1452 to 1519 , was the most brilliant person ever born. He was certainly a man anead of his time
Records show that da Vinci loved the world and was curious Records show that da Vinci loved the world and was curious To learn about the human body, he dissected corpses to find out what was inside. In the 15 th and 16 th centuries, dissecting the dead was against the laws of the Catholic Church. Leonardo was a brave man!

| He was also an inventor Leonardo invented a parachute and designed a type of |
| :--- | helicopter-five centuries before airplanes were inventedl Another of da Vincl's maior

talents was painting. You have probably seen a print, or copy, of one of his most famous paintings. It is called The Last Supper, and it shows Jesus eating his final meal with his
disciples. It took da Vinci three years to paint The Last Supper The man who hired da inci to do the painting was upset. He went to da Vinci to ask why it was taking so lon he problem, said do Vinci, was that in the painting, Jesus has just told the disciples that ne of them would betray me. He wanted to get their expressions exactly right as each Another famous pointing by da
is painting? Maybe you have bil It museum called the Louvre (loov). If so. you know that Mona Lisa a hos a wistfl in Pparis on her face. The painting is of a real woman, the wife of an Italian merchant, Art
historians believe she looks wisftul because one of her children had recently died Directions: Answer these questions about

1. How old was da Vinci when he died? 67
2. Name two of da Vinci's inventions. the parachute and the
helicopter
3. Name two famous paintings by da Vinci. The Last Supper and Mona Lisa
4. In which Paris museum does Mona Lisa hang? $\square_{\text {Lourre }} \square_{\text {Loure }}$ Louvre

Page 106

## Comprehension: Rembrandt



## ANSWER KEY



Page 110


Page 113

## Using Prior Knowledge: Big Cats

## Directions: Before reading about big cats in the following section, answer these questions.

| 1. Name at least four big wild cats. |
| :--- |
| Answers will vary. |

2. Compare and contrast a house cat with a wild cat.
$\longrightarrow$
$\qquad$
3. What impact might the expansion of human population and housing have on big cats?
$\bar{\square}$
4. Do you have a cat? What are the special qualities of this pet? Write about your cat's
name and its personality traits. If you don't have a cat. write about a cat you would like name and its personality fraits. If you don't have a cat, write about a cat you would like
to have.
$\qquad$ $\square$



Page 111
Page 112

## Comprehension: Pumas

The purna is a cat most recognized by the more popular
names of "cougar" or "mountain lion." Just like othe ats, the puma is a carnivore. It feeds ond iter other large
 ach eye have small heads with a single black spot above. America.) to The coat coldor ranges from bluish-gray (North America) to reddish-brown (South America). The underside
of the body as well as the throat and muzzie, are white. of the body as well as the throat and muzzle, are white.
The puma's body can be almost 6 feet long, not including The purn.
the tail. the tail.
Female pumas give birth to two to four young. When first born, pumas have brown spots
are lined with dark brown tings.
As with the jaguar, pumas are blamed for killing cattle
cause of fins nonexistent in sa

1. What is a muzzle? the nose and mouth of an animal 2. As the population increases in North America, predict what might happen to pumas. Answers will vary.
2. What are two other popular names tor the puma? COUGAR and whountain lion 4. What other cat besides the puma is blamed for killing cattle? the jaguar
to largest.
1) $\operatorname{ly} n x$
2) jaguar $\qquad$ 2) puma
3) leopard


Page 114

Page 115

## ANSWER KEY



Page 116

## Using Prior Knowledge: Farm Animals



Page 119


Comprehension: Pigs Are Particular Have you ever wondered why pigs wallow in the mud? It's not because they are dirty
animals. Pigs hove no sweat glands. They can't sweat, so they roll in the mud to cool animals. Pigs have no sweat glands. They can't sweat, so they roll in the mud to cooly
themselves. When people who are hot say, I't sweating like a pig!" that's not really Themselves. When people who are hot sa,
true. Humans can sweat, but pigs cannot. Actually, pigs are particular about their pens. They are very clean animals. They prefer
to sleep in clean, dry places. They move their bowels and empty their bladders in another to sleep ine clean, dry places. They move their bo
area. They do not want to get their homes dirty. Another misconception about pigs is that they are smooth. Only cartoon pigs are pink,
smooth, and shiny-looking. The skin of real pigs is covered with bistles smooth, and shiny-looking. The skin of real pigs is covered with bristles-small, stiff hairs
Their bristles protect their tender skin. Female pigs are called sows. Sows have babies twice a year and give bith to 10 to 14
piglets at a time. The babies have a gestation period the pigleets at a time. The babies have a gestation period of 16 weeks before they are born.
All the pigiets together are called a litter. Newborn piglets are on their tiny feet within a few minutes after birth. Can you guess why? They are hungrily looking for their mother's
teats so they can get milk. As they nurse, piglets snuggle in close to their mother's belly to teats so they can get milk. As they nurse, piglets
keep warm.
Directions: Answer these questions about pigs

1. Why do pigs wallow in mud? to keep cool since they cannot 2. How long is the gestation period for pigs? 16 weeks
2. What is one misconception about pigs? They are smooth. Pigs 4. Tell two reasons pigs are on their feet soon actualler they have born. bristles.
a.) They want to nurse.
b.) They want to snuggle 5. A temale pig is called
$\square$ bristle. $\square$ piglet

3. Together, the newborn piglets are called a
$\square$ group.
$\square$ family. X liter.

4. Female sheep are called
$\square$ grazers.
ewes. $\square$ dockers.
5. Lambs begin playing in groups when they are
$\square 4$ weeks old
$\square 2$ weeks old.
$\lambda_{3 \text { weeks old. }}$
$\square 4$ weeks old.

Comprehension: All About Sheep

## Did you ever wonder what really happened to the tails of Little Bo-Peep's sheep? Here's

 When sheep are bom, they are called lambs. Lambs are born with long tails. A few daysafter lambs are born, the shepherd cuts oft their tails. Because wey after lambs are born, the shepherd cuts off their tails, Because they get dirty, the lambs' long tails can pick un lots of germs. Cutting them oft helps to prevent disease. The procedure
is colled "docking." This is probabily what happened to Bo-Peepp's sheepl Anothe shepherd must have cut their tails off without telling her.
Lithle lambs are cute A lamb grows inside it mother for 150 days betore it is born is called lambs gre the cute. A Alamb growsion period. "Some typide of sheep, such as hill sheep, give birth to one is caled the gestation ty ty thes of sheep, such as lowland sheep, give bitth to two or three lambs at a time.
Ater it is born, it takes a lamb three or four days to recognize its mother. Once it does, It ward other lambs.
Young lambs then form play groups. They chase each other in circles. They butt into
each otter. Like children. they pretend to tight When each
back to their mothers for protection.
Lambs follow their mothers as they graze on grass. Usually. sheep move in single file
behind an older female sheep. Female sheep are called ewes. The ewes teach their lambs how to keep themselves clean. This is called "grooming" Sheep groom only their faces. hew
Here is how they do it: They lick one of their front legs, and then they rub their faces against the spof they have licked.
Directions: Follow the instuctions below.

1. Define the word docking. cutting off a lamb's tail to prevent 2. Name a type of sheep that gives bith to one lamb at a time. hill sheep
2. Name a type of sheep that gives bith to two or three lambs at a time.
lowland sheep

## Review

Directions: Follow the instructions below.

1. Choose any two big cats from this section, and compare them.

Answers will vary.

Why are each of these big cats endangered or decreasing in number?
$\qquad$
3. What can be done to get these big cats off the endangered list?
$\qquad$
4. Now that you have read about big cats, compare and contrast them with a house cot 4. Now that you have read about big cats, compare and contrast them with a
What do you know now that you didn't know before reading this section?
$\qquad$ $\longrightarrow$
$\qquad$

Page 118

## ANSWER KEY

## Context Clues: No Kidding About Goats



Page 122


Page 125

Comprehension: Cows Are Complicated

Page 123

Review

1. Witte a summary of the selection "All About Sheep" (page 120). Answers will vary

What is the purpose of a pig's bristles?
to protect the pig's skin
3. Write a summary of the selection "No Kidding About Goats" (page 122)

Answers will vary
4. What is the purpose of a cow's four stomachs?
to digest food that can be turned into milk
.How do chickens establish leaders and followers?
Chickens peck each other to determine
dominance. Chickens will only peck another chicken who is "below" them in the pecking order.
the ball of grass formed by the rumen
shave tront teeth. They eat grass by wrapping their
tongues around it and pulling tfom the ground. They
do have bock teeth, but still hey cannot properly chew
the grass.
shave tront teeth. They eat grass by wrapping their
tongues around it and pulling tfom the ground. They
do have bock teeth, but still hey cannot properly chew
the grass.
The grass.
Cows swallow grass without chewing it. When it's swallowed, the grass goes into the
cow's first stomach, called a rumen (roo-mun). There. it is broken up by the digestive iu
The grass.
Cows swallow grass without chewing it. When it's swallowed, the grass goes into the
cow's first stomach, called a rumen (roo-mun). There. it is broken up by the digestive iu
Cows swallow grass without chewing It. Whenit's swallowed, the grass goes into the
cow's firststomach, , alled a rumen (ro-mun). There, it is broken up by the digestive juices
and forms into a ball of grass. This ball is called cud. The cow in abpe to
Cows swallow grass without chewing It. Whenit's swallowed, the grass goes into the
cow's firststomach, , alled a rumen (ro-mun). There, it is broken up by the digestive juices
and forms into a ball of grass. This ball is called cud. The cow in abpe to
and forms into a ball of grass. This ball is called cud. The cow is able to to bing the cuud
back up into its mouth. Then, the cow chews the cud into a pulp with its back teeth and
and forms into a ball of grass. This ball is called cud. The cow is able to to bing the cuud
back up into its mouth. Then, the cow chews the cud into a pulp with its back teeth and
back up into its mouth. Then, the cow chews the cud into a pulp with its back teeth and
re-swallows it.
back up into its mouth. Then, the cow chews the cud into a pulp with its back teeth and
re-swallows it.
After it it swallowed the second time, the cud goes into the cow's second stomach. This
secand stomach is called the reticulum (re-tick-ulum). The reticulum filters the food the
After it it swallowed the second time, the cud goes into the cow's second stomach. This
secand stomach is called the reticulum (re-tick-ulum). The reticulum filters the food the
second stomach is called the reficulum (re-1cic-u-lum). The retcculum fiters the food to
sort out any small stones or other non-food matter Then it passes the food onto the cow's
second stomach is called the reficulum (re-1cic-u-lum). The retcculum fiters the food to
sort out any small stones or other non-food matter Then it passes the food onto the cow's
solt out any small stones or other non-food matter. Then, It passes the food onto the cow's
third stomach. The third stomach is colled the omasum (oh-mass-um).
solt out any small stones or other non-food matter. Then, It passes the food onto the cow's
third stomach. The third stomach is colled the omasum (oh-mass-um).
From there, any food that is still undigested is sent back to the firtst stomach so the cow
can bring it back up into her mouth and chew it some more. The rest goes into the cow's
From there, any food that is still undigested is sent back to the firtst stomach so the cow
can bring it back up into her mouth and chew it some more. The rest goes into the cow's
can bring it back up into her mouth and chew it some more. The rest goess into the cow's
fourth stomach. The fouth stomach is called the abomasum (ab-oh-ma-sum). Digesting
can bring it back up into her mouth and chew it some more. The rest goess into the cow's
fourth stomach. The fouth stomach is called the abomasum (ab-oh-ma-sum). Digesting
fout stomach. The fourth stomach is called the abomasum (ab-oh-ma-sum). Digesting
food that can be turned into milk is a full-time job for cows!
fout stomach. The fourth stomach is called the abomasum (ab-oh-ma-sum). Digesting
food that can be turned into milk is a full-time job for cows!
Directions: Answer these questions about cows.
Directions: Answer these questions about cows.

1. List in order the names of a cow's four stomachs.
2. List in order the names of a cow's four stomachs.
a) rumen b) reticulum c) omasum d) abomasum
a) rumen b) reticulum c) omasum d) abomasum
3. What is the name of the ball of grass a cow chews on? the cud
4. What is the name of the ball of grass a cow chews on? the cud
5. A cow has no
6. A cow has no
X tront teom.
X tront teom.
X tront teom.
\squarebackesem.
\squarebackesem.
\squarebackesem.
\square \mp@code { t o u n t s t o m o c h . }
\square \mp@code { t o u n t s t o m o c h . }
\square \mp@code { t o u n t s t o m o c h . }
8.Which stomach cocts sa aflert tordgestion
8.Which stomach cocts sa aflert tordgestion
8.Which stomach cocts sa aflert tordgestion
\square obomaum
\square obomaum
\square obomaum

## Context Clues: Dairy Cows

```
Some cows are ralised for their beef. Other cows, called
dairy cows, are raised for their milk. Adairy cow cannot
pooduce any milk until after its first calf is born Con
```

Some cows are ralised for their beef. Other cows, called
dairy cows, are raised for their milk. Adairy cow cannot
pooduce any milk until after its first calf is born Con

```
Some cows are ralised for their beef. Other cows, called
dairy cows, are raised for their milk. Adairy cow cannot
pooduce any milk until after its first calf is born Con
produce anyy milk until ffter its firitt Acalif is born. Cows are not
mature enough to give birth until they sore 2 years old A
produce anyy milk until ffter its firitt Acalif is born. Cows are not
mature enough to give birth until they sore 2 years old A
produce anyy milk until ffter its firitt Acalif is born. Cows are not
mature enough to give birth until they sore 2 years old A
mature enough to give birth untit they are 2 years old. A
cow's gestation period is 40 weels long and sh usully
mature enough to give birth untit they are 2 years old. A
cow's gestation period is 40 weels long and sh usully
mature enough to give birth untit they are 2 years old. A
cow's gestation period is 40 weels long and sh usully
cow's gestation period is 40 weeks long, and she usually gives
birth to one calf: Then, she produces a lot of milk to feed it.
cow's gestation period is 40 weeks long, and she usually gives
birth to one calf: Then, she produces a lot of milk to feed it.
cow's gestation period is 40 weeks long, and she usually gives
birth to one calf: Then, she produces a lot of milk to feed it.
When the calt is 2 days old, the dairy former tokes the calf
When the calt is 2 days old, the dairy former tokes the calf
When the calt is 2 days old, the dairy former tokes the calf
away from its mother. After that, the cow is miked twice a day
away from its mother. After that, the cow is miked twice a day
away from its mother. After that, the cow is miked twice a day
The dairy cow's milk comes form the large, smoth whe udder beneath her body, The udder
has four openings called teats. To milk the cow, the farmer grasps a teat and squeezes
The dairy cow's milk comes form the large, smoth whe udder beneath her body, The udder
has four openings called teats. To milk the cow, the farmer grasps a teat and squeezes
The dairy cow's milk comes form the large, smoth whe udder beneath her body, The udder
has four openings called teats. To milk the cow, the farmer grasps a teat and squeezes
it with his thumb and forefinger. Then, he gently but firmly pulls his hand down the teat to
it with his thumb and forefinger. Then, he gently but firmly pulls his hand down the teat to
it with his thumb and forefinger. Then, he gently but firmly pulls his hand down the teat to
squeeze the milk out. Milking machines that are hooked to the cow's teats duplicate this
squeeze the milk out. Milking machines that are hooked to the cow's teats duplicate this
squeeze the milk out. Milking machines that are hooked to the cow's teats duplicate this
action and can mik many cows quickly,
A dairy cow's mikk production is not ot
action and can mik many cows quickly,
A dairy cow's mikk production is not ot
action and can mik many cows quickly,
A dairy cow's mikk production is not ot
Adairy cow's mik production is not at the same level all the time. When the cow is
Adairy cow's mik production is not at the same level all the time. When the cow is
Adairy cow's mik production is not at the same level all the time. When the cow is
cow is said to be "dry" and is not milked. This happens because, like humans, much of the
cow is said to be "dry" and is not milked. This happens because, like humans, much of the
cow is said to be "dry" and is not milked. This happens because, like humans, much of the
cow's food is actually being used to nourrsh the ungom calf.
Farmers give the cow extra food at this time to make sure the mother and unborn cal
cow's food is actually being used to nourrsh the ungom calf.
Farmers give the cow extra food at this time to make sure the mother and unborn cal
cow's food is actually being used to nourrsh the ungom calf.
Farmers give the cow extra food at this time to make sure the mother and unborn cal
e well nourished. Again, like humans, well-nourished mothers are more likely to produce
e well nourished. Again, like humans, well-nourished mothers are more likely to produce
e well nourished. Again, like humans, well-nourished mothers are more likely to produce
healthy babies.
healthy babies.
healthy babies.
Directions: Answer these questions about dairy cows.
Directions: Answer these questions about dairy cows.
Directions: Answer these questions about dairy cows.
1. Use context clues to choose the correct definition of grasp.
1. Use context clues to choose the correct definition of grasp.
1. Use context clues to choose the correct definition of grasp.
\(\square_{\text {pull firmly }} \quad \square_{\text {hold firmly }} \quad \square_{\text {hold gently }}\)
\(\square_{\text {pull firmly }} \quad \square_{\text {hold firmly }} \quad \square_{\text {hold gently }}\)
\(\square_{\text {pull firmly }} \quad \square_{\text {hold firmly }} \quad \square_{\text {hold gently }}\)
2. Use context clues to choose the correct definition of duplicate.
2. Use context clues to choose the correct definition of duplicate.
2. Use context clues to choose the correct definition of duplicate.
\(\square_{\text {correct }} \quad \square_{\text {make }} \quad \boldsymbol{X}_{\text {copy }}\)
\(\square_{\text {correct }} \quad \square_{\text {make }} \quad \boldsymbol{X}_{\text {copy }}\)
\(\square_{\text {correct }} \quad \square_{\text {make }} \quad \boldsymbol{X}_{\text {copy }}\)
.Use context clues to choose the correct definition of decrease
.Use context clues to choose the correct definition of decrease
.Use context clues to choose the correct definition of decrease
\(\square\) become more \(\quad \square_{\text {become less }}\) buicker
\(\square\) become more \(\quad \square_{\text {become less }}\) buicker
\(\square\) become more \(\quad \square_{\text {become less }}\) buicker
4. Use context clues to choose the correct definition of nourish.
4. Use context clues to choose the correct definition of nourish.
4. Use context clues to choose the correct definition of nourish.
\(\square\) to be happy \(\quad \square_{\text {to be friendly }} \quad \boldsymbol{A}_{\text {to feed }}\)
\(\square\) to be happy \(\quad \square_{\text {to be friendly }} \quad \boldsymbol{A}_{\text {to feed }}\)
\(\square\) to be happy \(\quad \square_{\text {to be friendly }} \quad \boldsymbol{A}_{\text {to feed }}\)

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Using Prior Knowledge: Stamp Collecting Directions:
questions.
1. Why do you think people collect stamps?

Answers will vary.
2. What hobby do you most enjoy? Why?
\(\longrightarrow\)
3. Name at least six famous people who have been pictured on a stamp.
\(\square \square\)
4. Why do you think the postal service issues many different stamps each year? Why not just issue one stamp?
5. Most stamps today are self-stick stamps. What are the benefits of these stamps? Do you think these create any drowbacks for collectors?
\(\longrightarrow\)

\section*{ANSWER KEY}

\section*{Fact or Opinion?}

Directions: Read the paragraphs below. Then, in the correspond
witite whether each numbered sentence is a fact or an opinion.
(1) An important rule for stamp collectors to follow is never to handle stamps with stamps. (3) Stamps rere stored by being placed on mounts. (4) Stamp mounts are plastic thomps. (3) Stamps are stored by being placed on mounts. (4) Stamp mounts ane plas
holders that fit around the stamp and keep it clean. (5) The backs of the mounts are sticky, so they can be stuck onto a stamp album page. (6) What a great ideal
( \()\) ) te stamps are mounted in stamp allumms that have either white or black (8) Some people prefer black pages, claiming that the stamps "show" better. (9) Some people prefer white pages, claiming that they give the album a cleaner look. (10)। think this foolish bickering over page colors is sidiculous!
1.fact
2.fact
3.fact
4.fact
5.fact
6.opinion
7.fact
8.opinion
o.fact
10.opinion


\section*{Comprehension: Faces on Stamps} Most faces that appear on postage stamps are of famous people who are no longer an stamps. In tact, a person had to be deceased tor five years beofore could be featured on stamps. In fact, a person had to be deceased for five years before appearing on a
stamp. The Postal Service changed the rule in 2011. The actors from the Harry Potter movies were among the first to be honored on a series of stamps. Many U.S. presidents 'faces have been on postage stamps, as have pictures of the faces
of other important people in U.S. history. Some people's faces have been on many different stamps. Through the years, George Washington and Benjamin Frankiin have been on dozen of different types of stamps!
Other people whose pictures have been on stamps include John Quincy Adarms, the
sixth president of the United States; Jane Addams, a U.S. social worker and writer: Louisa May Alcott, author of Little Women and many other books: Clara Barton, nurse and founder of the American Red Cross: Alexander Graham Bell, inventor of the telephone: and poet,
Emily Dickinson These are olly a few of the hundreds of tanous Emily Dickinson. These are only a few of the hundreds of famous
Americans whose faces have appeared on U.S. postage stamps. Directions: Answer these questions about some of the people whose faces have appeared on U.S. stamps.


Name six occupations of people whose faces have appeared on postage stamps. Possible answers: actor, president, writer, inventor, nurse, and poet

What two people's pictures have appeared on more stamps than on any others? George Washington and Benjamin Franklin What this honor? Answers will vary.
```

Which person featured on a postage stamp was a social worker?
\square Clara Barton \square Lovisa May Alcott , \

```
\(\square\) Emily Dickinson Alexander Graham Bell \(\quad \square\) John Quincy Adams

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\section*{Comprehension: More Stamp Collecting}

\section*{Many people collecectstamps in blocks of four EGCh stamp in the blocki. stuck to the
other stomps anong the edgess. Collectors do not tear the stomps apart tom one another} They buy blocks of stamps bearing new designs directly foom the post oficice. Then, they mount the blocks of tamps and place them in their aliums. Collectors also gett their stamps off of envelopes. This is a bit tricky, because the stamps ore glued on Usually collectors soak the stampsin warm water to loosen the glue. Th.
they genty

 and study of postages stamps. Philitelists ore the people who collect ond study them. Prockets oftampos sually contain stamps t tom mony different countries. Offen, the contain duplicates of some of the stamps. Suppliers sually don't sort the stamps that go
into the pockeis for begineess. They leave thot for beginning philatelists to enioyl
Directions: Answer these questions about stamp collecting
1. Name three places some people get stamps. from the post office,
from envelopes, by buying a packet of mixed stamps
3. What rere people called who collect and study stamps? philatelists
4.The bag that a mixture of stamps comes inis called \(a\)
\(\square\) postal bag. \(\quad \square\) packet. \(\square\) phlilatelst
5. Do stamp mixtures usually include only U.S. stamps?
\(\square\) ves \(\quad \boldsymbol{X}\) No


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Recalling Details: Philately Abbreviations
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Like other hobbies, philately has its own jargon and symbols. Collectors and dealers know what they mean, buto utsiders would be puzzled if they saw the following abbreviations
without their definitions. Read them carefully, and then refer to them when answering the questions below.} \\
\hline Avg. - average condition & M - mint (excellent and unused) condition \\
\hline blik. - block of four stamps & s- single stamp \\
\hline c- cancelled (used) stamp & U - used stamp \\
\hline Os - original gum & VF - very fine condition \\
\hline (glue on back of tamp) & Wmk - watermark (can occur when woter \\
\hline © - good condition & is used to remove stomp trom envelope) \\
\hline \multicolumn{2}{|l|}{Directions: Answer these questions about the abbreviations used by stamp dealers and collectors.} \\
\hline \multicolumn{2}{|l|}{1.1f a philatelist wrote the following descrifitio, what would he or she mea} \\
\hline \multicolumn{2}{|l|}{I have a bik. in vF. I have a block of four stamps in very fine condition.} \\
\hline \multicolumn{2}{|l|}{2. What does this mean? s with OG , condition M a single stamp with original gum in mint condition} \\
\hline \multicolumn{2}{|l|}{3. What other abbreviation would most likely be used do describe a used (U) stamp? C} \\
\hline \multicolumn{2}{|l|}{4. What does this mean? \(\sin\) Avg. with Wmk a single stamp in average condition with a watermark} \\
\hline \multicolumn{2}{|l|}{5. Which is more valuable, a rare stamp in \(M\) or \(\mathbf{V F}\) conadition? \(M\)} \\
\hline \multicolumn{2}{|l|}{6. Would you rather own a single U stamp or a blk. in M? blk. in M} \\
\hline
\end{tabular}

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Directions: Read the paragraphs below. Then, in the correspon
wite whether each numbered sentence is a fact or an opinion.
(1) Nearly every valuable stamp on Earth has been counterfeited (coun-ter-fit-tid) at one time or another. (2) A counterferl is a fake that looks neariy identical to the original (3) It takes a lof of (2) A to try to pass of counteriets as the teal hing. (4) Counterfeiting no original for comparison, he or she can be easily fooled by a good counterfeitl (6) One way people can make sure a stamp is real is to have it checked by a company that authenticates (aw-then-ti-kates) stamps. (7) To authenticate means to
prove the stamp is real. (8) Of course, there is a fee for this service. (9) But 1 think paying a reasonable fee is worth what collectors get in return. (10) Those counterfeiters should be locked up forever
1. fact
2.fact
3. opinion
4. fact
5.fact
6.fact
7.fact
8.fact
9. opinion


\section*{Fact or Opinion?}
up forever!
act
ct
t
ct
act
10.opinion

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\section*{ANSWER KEY}


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\section*{Comprehension: Cooking with Care}



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\section*{Using Prior Knowledge: Cooking}

What is your favorite recipe? Why?
Answers will vary.

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\section*{Sequencing: Pumpkin-Nut Muffins}

\section*{\({ }^{2}{ }_{4}\) cups flour \\ 2 teaspoons pumpkin pie spice \(\quad \frac{1}{3}\) cup buttermilk}
\(\begin{array}{ll}1 \frac{1}{2} \text { teaspoons baking soda } & \frac{1}{3} \text { cup buftermilk } \\ \frac{1}{3} \text { cup canola oil }\end{array}\)
1 teaspoon ground ginger
\(\frac{1}{4}\) teaspoon salt
\(\frac{1}{4}\) cup maple syrup
\(\frac{1}{2}\) cup chopped pecan
1 teaspoon vanilla extract 1 cup packed brown sugar

2 large eggs
Before you begin, preheat the oven to \(400^{\circ}\). Combine the flour, pumpkin pie spice, baking soda, ginger, and salt in a medium bowl. Stir the dry ingredients with a whisk. Stitr
in the nuts. Next, make a well in the center of the mixture. In a separate bowl. combine in the nuts. Next, make a well in the center of the mixture. In a separate bowl. combine the brown sugar, canned pumpkin, buttermilk, canola oil, maple syrup, vanilla extract,
and eggs. Stir well with a whisk. Now, add the sugar mixture to the flour mixture, and stir just until moist.
Scoop the batter into 18 muffin cups coated with cooking spray. Bake at \(400^{\circ}\) for about 15 minutes, or until a wooden pick inserted in the center of a muffin comes o

Directions: Number in correct order the steps for making pumpkin-nut muffins.
2 Combine the dry ingredients.
3 stir in the nuts.
5 Whisk together the wet ingredients.
7 Cool the muffins on a wire rack.
1 Preheat the oven to \(400^{\circ}\).
6 Add the sugar mixture to the flour mixture.
8 Eat and enjoy!
4 Make a well in the center of the mixture.

\section*{ANSWER KEY}

\section*{Comprehension: Eating High-Fiber Foods}

\section*{Have you heard your parents or other adults talk about " "igh-
fiber" diets? Fooods that are high in fiber, like outs and other grains.
are believed to be very healthy. Here's shy. The fiber adds bulk are believed to be very healthy. Here's why: The fiber adds bulk
to the food the body digests and helps keep the large intestines working properly. Com, oatmeal, apples, celery, nuts, and othe
chewy toods also contain fiber that helps the body's systems tor digesting and eliminating food keep working properly. Researchers at the University of Minnesota have found anothe} aco reason to eat high-fiber food, especially at breakíast. Because fiber is bulky, it absorbs, alof of iliquid in the stomach. As it absorbss the liquid, It tswe lis. This fools the stomach into
thinking it's fuli. As a result, when lunchtime comes, those who have eaten a high-fiber breakfast are not as hungry. They eat less food at lunch. Without much effort on their pa dieters eating a high-fiber breakfast can lose weight.
The university researchers say a person could lose 10 figh-fiber breakfast! This is good news to people who are only slightiy overweight and want on easy method for losing that extra 10 pounds.

Directions: Answer these questions about eating high-fiber foods.
Why is fiber healthy? Fiber adds bulk to the food the body digests and helps keep the large intestines working properly
2. How does fiber fool the stomach? Fiber absorbs liquid in the stomach and swells. This fools the stomach into thinking it's full.
3. Name four examples of healthy, fiber-rich foods. Possible answers: corn, oatmeal, apples, celery
4. How many pounds could a dieter eating a high-fiber breakfast lose in a year?
\(\square 20\) pounds
\(\square 30\) pounds
\(X_{10 \text { pannes }}\)
5. The university that did the research is in which state?
\(\square\) Michigan
A Minnesota
\(\square_{\text {Montana }}\)


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Comprehension: The French Eat Differently
Many people believe that French people are very different from Americans. This is
ertainly true where eating habits are concerned! Obesity rates are about three times higher in America than they are in France. And yet, the French are known for their rich heeses and dellicious pastries. So how do the French manage to stay fit and healthy here are several differences between the eating habits of Americans and the French
One difference has to do with quality versus quantity. In America, portion sizes are known for being very large. In France, portions are much smaller, which means the rench consume fewer calories. Also, when the foods are high quality, a small amount
an be very satistying.
irry hury and rush through meals. Eating quickly or mindlessly can lead to overeating. The
French take their time with meals. They eat more slowly, which gives the body a chance
to recognize when it is full.
Finally, the French tend to cook at home more offen than Americans do. In the United States, eating out is a popular pastime. II is convenient, and it's salso enjoyable. The problem is that restaurant foods and processed foods are higher in fat and calories.
Eating at home, like the French tend to do, results in healthier meals. French meais are high in quality and flavor, and the French leave a meal feeling satisifid. Their eating gabits keep them fit and healthy. Eating like the French could mak
America hearthier, tool

Directions: Answer these questions about ine eating habits offrench and American people. Why is it surpisising that the French tend to be healthy and have low rates of obesity The French are known for their rich cheeses and deticious partries. Am likely to rush through meals?
Americans \(\qquad\)
Why is eating at home generally a better idea than eating out or eating processed foods? Resture foods are
What is the difference higherween infal and pon calorides.
In America, portion sizes tend to be large, while in Whance ib bitions are much smaller.
The body has a chance to recognize when it is full.

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Comprehension: Chinese Cabbage
Many Americans enjoy Chinese food. It's a popular
take-out meal in cities across the United States. Because It tastes so good, many people are curious about the Igredients in Chinese food. Siu choy and choy sum enjoy eating. Siu choy grows to be that many p 3 feet 1 O
course, it is choped cooked and served. Its leaves are light green and soff. It is not crunchy like American cabbage. Siu choy
is used in soups and stews. Sometimes it is pickled s used in soups and stews. Sometimes, it is pickled with vinegar and other ingredients and served as a side dish to other courses.
Choy sum looks and tastes different from siu choy. Choy sum grows to be only 8 to 10 Inches. It is a flowering cabbage that grows small yellow flowers, which are edible., Its eaves are long and bright green. After its leaves are bolled or four minutes, choy sum sum as a solad dressing.
Directions: Answer these questions about Chinese cabbage
1. Which Chinese cabbage grows small yellow fiowers? choy sum
2. Which Chinese cabbage is served as a salad? choy sum
3. Is siu choy crunchy? no
4. What ingredients are in the salad dressing used on choy sum

\section*{oil and oyster sauce}
5. To what size does siu choy grow? 2 to 3 feet
6. Name two main dishes in which siu choy is used. SOUpS and stews

\section*{Review}

Here's a recipe for a special mashed potato treat
last and easy to follow, and the results are delicicious that serves two people. The recipe Begin by peeling two large potatoess and cooking them in a pot of boiling water. When
a fork or knife inserted into them pulls out easily, , ou will know they ore a fork or knife inserted into them puls out easily, you will know they yre done. Then, take
them from the pot, and drain them well. Place them in a large mixing bowi, and add 2 tablespoons of milk and 2 tablespoons of butter. Mash with a potato masher until the lumps
are gone. In a skillet, mell a tablespoon of butter, and add one bunch of chopped green onions
Cook them about 1 minute. Add them to the potatoes, and mix gently. Season with salt and pepper. Serve and eat
Directions: Answer these que
potatoes with green onions.
1. Circle the main idea:


This recipe has only four ingredients (plus salt and pepper).
2. Name the main ingredients in this recipe (not including salt and pepper). potatoes, milk, butter, and green onions
3. How many people does this recipe serve? two
4. Number in order the steps for making mashed potatoes with green onions.

4 Cook the chopped green onions for 1 minute.
I Peel two potatoes
6 Season with salt and pepper and serve
3 Put the cooked potatoes in a bowl with milk and butter, then mash
5 Add the onions to the mashed potatoes.
2 Boil the potatoes until they are done.

Using Prior Knowledge: Greek and Roman Mythology
\begin{tabular}{l} 
Roman Mythology \\
\begin{tabular}{l} 
Directions: Before reading about Greek and Roman mythology in the following section, \\
answer these questions. \\
1. Hercules is a man from Greek and Roman mythology. Write a short paragraph \\
describing what you know about Hercules. \\
Answers will vary. \\
\hline \begin{tabular}{l} 
2. Can you think of anything today that derived its name from a Greek or \\
Roman myth?
\end{tabular} \\
\begin{tabular}{l} 
3. Compare and contrast what you know of Greek and Roman beliefs about \\
mythology with your beliefs. \\
\hline
\end{tabular} \\
\begin{tabular}{l} 
4. Many constellations are named after gods, goddesses, and mythical creatures. \\
Name at least six. \\
\hline
\end{tabular} \\
\hline
\end{tabular} \\
\hline
\end{tabular}

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\section*{ANSWER KEY}

\section*{Comprehension: Roman Legends}
 Apres whe Romans Apollo was the god of the sun. People belleved he used his chariof to pull the sun up
each day and take it down at night. Apollo was extremely good-looking. His home was golden palace near the sun surrounded by fuffy white clouds. Apollo had to work every single day but he lived a wonderfun life.
Jupiter was the most important god of all. He was the god who ruled all of the other
gods, as well as the people. Jupiter was also called the Maybe you have heol gods, as well as the people. Jupiter was also called Jove. Maybe you have heard
someone use the exclamation,"By Jovel" "That person is talking about Jupiterl The w rather is derived from the word Jupiter. Although he did not really exist, Jupiter nfluenced our language
Directions: Answer these questions abour Roman legends.
1. What imaginary figure is Ceres compared to today? Mother Nature 2. Where did Apollo live? a golden palace near the sun

\(\square\) Ceres \(\quad \square_{\text {Apollo }} \quad \quad \boldsymbol{X}_{\text {Jupiter }}\)
4. Which is not true of Apollo?
\(\square\) He had to work every day.

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\section*{Remember Ce
ancient Romans.}
ancient Romans.
Ceres made th
come up and rain fall. Ceres was a very important goind
ancient Romans and the anclent Romans depended on her for many things.
Althuoun the gods and goddesses wer autts ike ordinary peoople. They argued with one anotither, they hac hey got mad and lost their tempers. This is what hapopenedt to Ceres and onother gooddess named Venus (Veen-us). Venus, wh decided to hurt Ceres by cousing Pluto, gloomy god of the underworld, to foll
(Pro-sul-pin-ay). he saw. Venus instructed Cupid to make sure that woman was Ceres's daughter. Cupid garden was Proserpine. Just as Pluto's chariot got near her, Cupid shot his arrow.

Directions: A
With whom was Venus angry? Ceres Proserpine.
3. Ceres's daughter's name was

\section*{\(\square\) Persperpine.}
4. Venus's son's name was
\(\square\) Apollo.

Comprehension: Apollo and Phaethon


\section*{Apollo, the sun god. had a son named Phaethon (Fay-
thun). Like most boys, phaethon was proud of his father. He}
 no one believed that the groent Apollo was his father.
Phaethon thought of a way to prove to his frieds Phaethon thought of g way to prove to his stinends that he
was telling the truth. He went to A Apollo and asked is he culd was teling the truth. He went to Apollo and asked if he could
drive the chariot of the sun. If his stiends saw him making the
sun rise ond set they woul sun rise and set, they would be awestruck! Apollo did not want to let Phaethon drive the chariot. He
was afraid Phaethon was not strong enough to control the was afraid Phaethon was not strong enough to control the
horses. But Phaethon begged until Apollo gave in. "Stay on hores.
the path," Apollo said. "If you dip too low, the sun will catch Unfortunately, Apollo's worst fears came true. Phaethon could not control the horses. He let them pull the chariot of the sun too close to Earth. To keep Eartit from burning, Jupiter,
father of the gods, sent a thunderbolt that hit phaethon and knocked him from the fother of the gods, sent a thunderbolit that hit Phaethon and knocked him from the
driver's seat. When Phaethon let go of the reins, the horses pulled the chariot back ariver s seat. When Phaethon let go of the relins, the horses pulied the chariof back up
onto the proper path. Phaethon was killed as he fell to Earth. His body fell and became a
sho shooting star.
1. Who did not believe Apollo was Phaethon's father? No one believed that
 \(\qquad\)
He asked if he could drive the chariot of the sun. 3. Why did Jupiter send a lightning bolt? to knock Phaethon from the driver's seat and keep Earth from burning
4. Which was not a warning from Apollo to Phaethon?

Don't pet the horses. They will run wild.
\(\square\) Don't go too far from Earth. It will freeze.

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\section*{Comprehension: Ceres and Venus}

Venus told Cupid thot the ms sent her son Cupid to shoot Pluto with his bow and arrow. he sow. Venus instructed Cupid to make sure that woman was Ceres's saughter. Cupid
waited with his bow and arrow until Pluto drove by Ceres's garden in his chariot. In the with poor Proserpine, who was quietly planting flowers. Pluto was not a gentleman. He dia not even introduce himselff Pluto swooped down and carried Proserpine off in his chariot
before she could call for help.
2. How did Venus decide to get even? She decided to hurt Ceres by causing Pluto to fall in love with Ceres's daughter,
```

$\square$ Prosperine

```
\(\chi_{\text {anded }}\)
\(X\) posepne
\(\square\) Pesseperphe.

\section*{Comprehension: Proserpine and Pluto}


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\section*{ANSWER KEY}


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\section*{Comprehension: The Santa Maria, Niña, and Pinta}

When Christopher Columbus decided to attempt a

 16 th centuries. The caravels Columbus used to sail to the
New World were named the Santa Maria, Niña, and Pint The ships were not very large. It is belleved the Santo Maria was only 75 to 90 teet long, and the Niña and Pinte
were only about 70 feet long. Caravels typically had three four masts with sails aftached. The foremast carried a square sail, while the others wer more triangular in shape. These triangular-shaped salis sere called "Iateen salls.
These three smal ships were quite seaworthy and proved excellent ships for C These three small ships were quite seaworthy and pro
They carried him sofely to the other side of the worldal
Directions: Answer these questions about the Santa Maria, Niño, and Pinta
1. What is a lateen sail? a triangular-shaped sail
2. What is the main idea of the selection? Possible answer:

Christopher Columbus voyaged to the New World with three reliable ships called caravels.
3. What is a caravel? a small sailing ship built by Spain and 4. Where did Columbus sail in his caravels? gcross the ocean to the
5. Do some rese
20th century.

Answers will vary \(\qquad\) Answ
\(\qquad\)

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\section*{Using Prior Knowledge: Famous Ships}


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\section*{Comprehension: The Lusitania} The Lusitania was a British passenger steamship. It
became tamous when it was torpedoed and sunk by
the Germans during Worid War I I On May 7,1915 , the the Germans during World War \(1.0 n\) Mad 7 , 1915 , the
Lusitania was traveling off the coast of Ireland when Lustania was traveling off the coast of freland when
a German sumarine fired on it without warning. The
shio stood no ship stood no chance of surviving the e twack and sunk
in an astonishing 20 minutes. Of the 1,198 people who in an astonishing 20 minutes. Of the 1,198 people who
perished, 128 were American citizens. At the time the perished. 22 were American citiens. At the time the
ship was torpedoed, the United States was not yet involved in the war. Public opinion over the attack
put pressure on President Woodrow Wilson to decla
 .
LThis claim was 隹er proven to be true. President Wilson demanded that the German government apologize tor the sinking and make amends. Germany did not accept
responsibility but did promise to avoid sinking any more passenger ships without first giv a warning.
Directions: Answer these questions about the Lusitania. Possible answers:
1. What does proclaimed mean? stated publicly
2. What does perished mean? died
3. What does amends mean? to correct a mistake
4. What does allies mean? countries that were on the same side 5. If the Lusitania was carrying arms, do you think the Germans had a right to sink it?

Why or why not?
Answers will vary. \(\qquad\)
\(\square\)
\(\square\)
\(\square\)

\section*{Comprehension: The Constitution}


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\section*{Comprehension: The Titanic}

, me intish passenger ship, Titanic, debuted in the spring of 1912.1. was billed as an unsinkable ship due to its construction afioat even in the event that four of the compartments were damaged. But on the evening of Aprill 14,1912 , during Titanic's first voyage, its design proved unworthy. Just before midanigh
Titanic struck an iceberg, which punctured 5 of the 16 compartments. The ship sunk in a litile under 3 hours. Approximately 1.513 of the over 2,220 people onboard died. Most of these people cie since the Atlantic Ocean was near freezing in temperature. It was one of the worst ocean disasters An istory.
Because of the investigations that followed the Titanic disaster. the passenger ship
industy instituted many reforms. It is now required that there is ample Iffeboat space

Directions: Answer these questions about the Titanic.
1. How did most fithe \({ }^{1,513}\) people onboard the Titanic die? there weren't unsinkable" ship sink? It hit an iceberg that punctured about a third of its compartments
What changes have been made in ship safety as a result of the Titanic tragedy? There must be lifeboats for all passengers and crew. Today, there is an international ice patrol and full-fime radio coverage. .there have been many attemptsto rescue atificts from the Titanic. But many fam of the dead wish the site to be left alone, as it is the final resting place of their relatives. Answers will vary.
\(\square\)
\(\square\)
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\section*{ANSWER KEY}

Venn Diagram: Lusitania and Titanic
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{5}{*}{Example:} & : Dogs & Both & Cats \\
\hline & bark & good pets & one size \\
\hline & dependent & can live inside or outside & kill mice \\
\hline & large and small breeds & have fur & can use lifterbox \\
\hline & protect the home & four legs & independent \\
\hline
\end{tabular}


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\section*{Reading Comprehension: Railroads}

Directions: Read the information about railroads. Then, answer the questions.
As early as the 1550 , a rough form of railroad was already being used in parts of Europe. Miners in England and other areas of westem Europe used horse- or mule-drawn
wagons on wooden tracks to pull loads out of mines. With these tracks, the horses could pull twice as much weight as they could without them. No one could have known then that one day this simple idea would change the world.
There were many developments along the way that
nd var weble fary developments along he way hat helped make railloads a practical the "flanged" wheel, which has a a rim around it to hold it it onto the track. The most important Invention was the stean engie by James Watt in 1765
The first railroads in the United States were built during the late 1820 s and caused a
lot of excitement They were faster than other forms of trove senvice year-ound, unlike boats and stagecoaches. Trains werd they could provide ravel in the U.S.
Rairoads play
Railroads played a major part in the Industrial Revolution-the years of change when
machines were fisis achines were first used to do work that had been done by hand for many centuries. Irains provided cheaper rates and quicker senvice for transporting goods. Because manufacturers could ship their goods over long distances, they could sell their product
all over the nation instead of only in the surrounding cities and towns. This meant greates all
profitser for the the companies. Trains also brought people into the cities to work in factories.
1. What was the source of power for the eariest railroads? horses or mules
. What were three important developments that made railroads a practical means the iron track, the "flanged" wheel, and the steam engine

3. What is meant by the industrial Revolution? the years or change from human-made to machine-made products
4. What were two ways that railroads changed life in America? They provided more reliable and faster transportation
for people and products.

Comprehension: The Monitor and the Virginia
 customary to cover wooden warships customary to cover wooden warships
with ron. This increased their durability and made them more difficult to sink. wo such ships were buir using ing Monitor and the Virginia. Most people are more familiar The name the Merrimack. The Merimack was a U.S.steam frigate that
Confederates were forced to abandon had been burnt and sunk by Union forces when the hull of the Merrimack and rebuilt her as
their navy yard their navy yard. TTe Confederate Navy raised the hul
the ironclad Virginia. the ironclad Monita and the Virginia engaged in battle on March 9, 1862. After severa
Both the Monitor hours of battle, the buiky Vininl Hampton Roads, was considered to be a tie between the
lowering tides. This battle, called Ha lowering tides. This
two ships. Virginia was sunk by her crew to avoid capture. The Monitor sunk on December 31, 1862, during a storm off the coast of North Carolina.
Directions: Use context clues for these definitions. Possible answers: 1. customary: common
2. durability:Strength: ability to last
3. ronclad: covered in iron

Directions: Answer these questions about the Monitor and the Virginia.
4. Who won the battle between the Virginia and the Monitor? It was a tie.
5. Why would lowering tides present danger to a ship? Possible answer: The ship could run aground.
Describe how each ship was finally destroyed Ihe Virginia was sunk by her crew to avoid capture. The Monitor sank during a storm off the coast of North Carolina.
\(\longrightarrow\)

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Describe the
and Titanic.
The Santa Maria was a relatively small sailing ship. The Monitor was an ironclad warship. The Titanic was a luxury passenger ship with 16 airtight compartments to make it "unsinkable."

Why did people think the Titanic was unsinkable? Atter the ship actually did sink, how do you think this affected the way people thought about new technology? Answers will vary

\section*{Review}

\section*{Use the Venn diagram you completed comparing the Lusitania and the}

FIN ittanic (page 158 ) to wite a two-paragraph compare/contrast essay about the two
ships. Describe their similarities in the first paragraph and their differences in the secona Answers will vary.
\(\qquad\) \(\longrightarrow\)
\(\square\)

\section*{Main Idea: Locomotives}
In the 1800 s, the steam locomotive was considered by many to be a symbol of the new Industrial Age. It was, incleed
one of the most important inventions of the time. Over the yone of the most important inventions of the time. Over ine
years there have been many hanges to the locomotive.
One of the most important has beenits source of power Durin One of the most important has been its source of power D. During
its history, the locomotive has gone from steam to electric to Its history, the
diesel power.
The first railloads used horses or mules for power but the
 practical means of transportation. The first steam locomotive was built in 1804 in Great Bitain by Richard Trevithick. It could haul 50,000 pounds, butit was not very successful because it was so heavy it c cussed the tracks to fall lapart. However it encouraged d ther engineers to try to build steam locomotives. Two of the most important men to accept the challenge
George Stephenson and his son, Robert. Robert once won a contest to build the best locomotive. The Rocket, as he called it, had a top speed of 29 miles per hour. In America, developments in steam engines were close behind those of the British. In 1830 , Peter cooper's tiny locomotive, called Tom Thumb, Iost taramous race against a horse-dra
coach. In spite of the loss, itstil convinced riilroad officials that steam power was more practical than horsepower.
Just before the turn of the century, the electric locomotive was widely used. At its peak The diesell locomotive was invented in the 1890 s by Rud The power of this locomotive was supplied by a diesel fuel engine. The diesel locomotive is still used today. It costs about twice as much as a steam locomotive to build, but it is much
cheaper to operate cheaper to operate.
What is the main idea of this selection?
The steam locomotive was consid \(\overline{\boldsymbol{X}} \begin{gathered}\text { asymbol of the industrial Age. } \\ \text { Over the years. there have been } \\ \text { many changes to the locomotive }\end{gathered}\) 2. Who built the first steam locomotive in 1804 Richard Trevithick How fast could the Rocket travel
29 miles per hour \(\qquad\) 4. Who built the locomotive called
Tom Thumb? Peter Cooper
5. Tom Thumb was in a race against a the horse-drawn What kind of fuel does a diesel andine weif fuel

\section*{Review}

Directions: Define these words as used in the selections "Railroads" and "Locomotives."
1. flanged wheel \(a\) wheel that has a rim around it to hold it to the track
2. transportation a way to move people and products 3. profit money earned
4. locomotive a vehicle that pulls a train
5. diesel a type of fuel
6. engineer a person who drives a train

n" in industry today, What new technology is leading this change, and how might it affect workers in the future? Answers will vary.

\section*{ANSWER KEY}


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Context Clues: Passenger Cars
Directions: Read the information about passenger cars. Use context clues to determine
the meaning of words in bold. Check the correct answers.


\section*{Reading Skills: Railroads}


\section*{Reading Comprehension: Printing}
 books were made to look handwititen.
In about 1440, a German goldsmithit named Johann Gutenberg developed the idea of movable type. He invented separate letters made of metal for printing. The letters
could be joined together to make words and sentences. Ink was applied to the letters could be joined together to make words and sentences. Ink was applied to the letters
to print many copies of the same material. Because they were made of metal, the letters could be used over and over. This wonderful invention made it possible to have more rinted material at a lower cost.
Gutenberg had other ideas th
ype of ink that would stick to the new metal lettert to printing. He developed a special hat the process of pintin whe almost unchanged for more than 300 years.
what country was the oldest known printed book made?
China
Who made the first p
separate lefters made of metal for printing
Who developed the idea of movable type?
Johann Gutenberg
He developed a special type of ink that would stick to the new metal letters.

\section*{ANSWER KEY}

\section*{Reading Comprehension: Newspapers}

Directions: Read the information about
newspapers. Then, answer the questions.
Newspapers keep us informed about what is going Newspapers keep us informed abour what is going
on in the world. They entertain educate, and examine
the events of the day. For millions of peoole worldwide the events of the day. For millions of people w.
newspapers are an important part of daly life.
Newspapers are published at various intervals, but they usually come out daily or weekly. The number of newspapers has fallen in
recent years. As more and more people have acess to there care many more ways for them tor receive their news.
Some newspapers have many subscribers-people who pay Some newspapers have many subscribers-people who pa
to have each edition delivered to them. While some people to have each edition delivered to them. While some people
choose to receive a paper copy of the newspaper others choose to receive a paper copy of the newspaper, otherrs
use an online subscription and read the paper on a computer screen.
Newwpapers provide a senvice to the community by providing information at litile cost.
But newspoper publishing is a business, sollike other businesses, newspapers need to make But newspaper publishing is a business, so like other businesses, newspapers need to make
money. They can keep the cost to subscribers low and still stay in business by selling space to businesses and individuals who want to adverise products or sevicices. Youlls see these ads in both pint and digital versions of newspapers

Why has the number of newspapers published fallen in recent years? As more
people have anecs to to thent, there are many
what servces bo newspapers prsvide?
They provide information at little cost. edition of the paper delivered to them
How often are most newspapers published?
What do newspapers do to keep the cost to the readerlow, but still make money?
They sell space to advertisers.
What is the name of the newspaper in the town or city where you live?
AnsWers will Vary.

\section*{Reading Comprehension: Newspapers}

Directions: Read the information about the first newspapers.
Then, answer the questions.
Long ago, town criers walked through cities reading important news to the people. The earliest newsian
probably handwritten notices posted in towns for the public
to read. The first true newspaper was a weekly paper started in LS Germany in 1609 . It was called The Strassburg Relation. The
Germans were pioneers in newspaper publishing. Johann Gutenberg, the man who developed movable type, was German. One of the first English-language newspapers. The London Gazeette, was first printed
in England in 1655 . Gazette is an old English word that means "official publication." Many newspapers today still use the word gazette in their names. In America, several papers began during colonial days. The first successtul one,
The Boston News-Letter began printing in 1704 . It was very small-about the size of a sheet of notebook paper with printing on both sides.
An important date in wewspaper publishing was 1833 . In that year. The New York Sun An inportant datein in ewspoper pubbilshing was 1833 in that year. The New York Sun
became the first penny newspaper. The paper actually did cost only a penny. The penny became the firt penny newspaper. The paper actually did cost only a penny. The penny
newspapers were similar to today's spapers: they printed news while it was still new, they newspapers were similar to today's papers: they pinted news while t was stin new, hey
were the first to print advertisements and to sell papers in newsstands, and they were the first to be dellivered to homes.

They were handwritten notices posted in towns
in Germany in 1609 nopspaprinted
in Germany in 1609
3. What was the name of the first successt
The Boston NeWs-Letter
4. Why was 1833 important in newspaper publishing? The New York Sun
5. List four ways penny newspapers were like the newspapers of today
printed fresh news; printed ads; sold at
newsstands; delivered to homes


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\section*{Reading Comprehension: News Stories}

Directions: Read the information about news stories. Then, draw on \(\mathbf{X}\) on the line

Let's imagine that a city bus has turned over in a dilch, injuring some of the passengers. An eyewitness might call the newspaper, or an editor might hear a report on the police scanner. The editor assigns a reporter to go to the scene. The reporter talks
to the passengers, driver, and witnesses who saw the accident. She finds out what they to the passengers, driver, and witnesses who saw the accident. She finds out what they
saw and how they feel, recording their answers electronically. At the same time, a saw and how they feel, recording thei
photographer is busy taking pictures.
Today, many repoters wite the story on the spot and then send it back to the office
via the Internet. Things moved a lot more slowly in the via the Internet. Things moved a lot more slowly in the news world just a few decades
ago! Next, an editor reads the story, checking facts, grammarr, and spelling. Meanwhile, the photographer suy
to represent the stony
to Iepresent the story.
It's now the job of other editiors to build the various newspaper pages on a computer,
using specialized software. Findly the pesses beln using specialized software. Finally, the presses begin to run, and the printing process can
Megin.
Miles of paper are turned into thousands of printed, cut, and folded newspapers. They are counted, put into bundles, and placed in waiting trucks. The paper is also
posted online, so people everywhere have access to it. No matter how people receiv posted , ins ar their new, it sonly a matter of hours
accident in their local newspaper.
1. Based on the other words in the sentence, what is the correct definition of eyewitness? \(Z\) a a peporson whit
ho saw what happened
How is the way that reporters send in stories different today than it was in the past? Today, they often write the stories on location and send them in via the internet.

\section*{Reading Comprehension: Nellie Bly}

Directions: Read the information about Nellie Bly. Then,
A hundred years ago, journalism and reporting were usually seen as a man's job. A young woman named
Elizabeth Cochran changed that idea in ways that peo would never forget. Nellie Bly, (Elizabeth's pen name) was curious and courageous. She did not take no for an
answer, and she was intent on finding the real story. She answer, and she was intent on finding the real story. She
wanted to give a voice to people who could not speak tor themselves.

new in Bly's time. Atter she took a a ob with a newspaper
new in sly s ime. Afer she took a job with a newspaper
called The Word in New York, BIy yccepted an assignent for an unusual story. She
pretended to be mentally ill so that she would be admilted to an inssne asylum. Her pretended to be mentally ill so that she would be admitted to an insane asylum. Her goal was to report on abuses going on at the asylum. Bly spent ten days working
Undercover as a patient. The Wordd published Bly's story with satisfying results. The city investigated the asylum, and treatment of the mentally ill improved. In 1889, Bly came up with an interesting idea for a story. She would travel around the
world in 80 days. In 1873 , witer Jules Verne had published a fictional book called Around the World in 80 Days. Bly decided to see if the trip could really be made and Arouna he Woild in
wite aboutit.t was unusual for women to travel aloene, but that didn't stop Nellie Bly.
she retumed triumshantly She retumed triumphantly yo New York 72 days later. People all around the country bought copies of The World to track Bly's progress. More than a century later, Bly is still
remembered for her trailbozing wrting and adventurous spinit.
1. What does it mean "to give a voice to people who could not speak for themselves"

She wanted to tell the stories of people who did not have a voice in society
Was Around the World in 80 Days a work of fiction or nonfiction?fiction
3. The name of the New York newspaper Bly wrote for was The World

What was the result of Bly's story about the insane asylum?
The city investigated the asylum, and treatment of the mentally ill improved
5. Investigative reporting is no longer a common practice. True False

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\section*{ANSWER KEY}


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\section*{Reading Comprehension: The Arctic Circle} Directions: Read the aricile about the Acctic Circle. Then, answer the questions
 In both places there are vent line

\section*{}
there ore six tuil montins of sunlight and ssfruith


 water and the long winter darkness
In the tor north. willow trees grow but only become a few inches highl The annual ings in those trees that you need a microscope to see them.
 it could not grow roots deep enough or strong enough to ollow the plant to get very blg.
1. What three conitinents hove land included in the Arctic Circle?

Europe \(\qquad\) Asia \(\qquad\) North America
2. Is the Accic Circle generally warmer or colder r han Antarcitica?
warmer
3. What is permatrost? permanently frozen layer of soil
4. Many tall pine trees grow in the Acticic Circle. Yes No

Reading Comprehension: Undersea Harvest


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\section*{Recognizing Details: The Frozen Continent}

Directions: Read the information about explorers. Then,
By the midd- 8000 s, most of the seals of Antarctica had
 Antarctica were scientitsts. Of these, the man who tock the most daring chances and made the most amozing discoveries was British Captain Jomes Clark Ross.
Rosest frts made and In 1831, , he discoverered the Notrn Magnetic Pole-one two placess on Earth toward which a compass needle
points. In 1840 , Ross set out to find the South Magnetic
 Pole.. He moce
Ross
Se
 The next man to make his mark exploing Antiocricica was b British expler Robet facon Scott. Scott set out in 1902 to find the South Pole. He and his team sutferead greatly, but
 also leading a team to the South Pole.
 on December 14, 1911, Amundsen became the fist man to reach the South Pole. Scoft
arived on January 17, 1912. He was bitferly disopoonted at ot being fist The titio back
 1. Atter the seal hunters, who were the next group of explorers interested in Antarcica? scientists
What great discover did James Ross make before ever soliling to Antation He discovered the North Magnetic Pole. 3. What were two other great discovereses made by James Ross?
the Ross Sea
the Ross Ice Shelf
4. How close did scort and his team come to the south Pole in 1902 ?
They made it a third of the way to the pole.
5. Who was the first person to reach the south Pole? Roald Amundsen

\section*{Reading Skills: Research}
 Directions: Use reference sources to learm more about Captain James Cook and Captan
 1. Captain James Cook


\section*{ANSWER KEY}


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\section*{Context Clues: Seals}

Directions: Read the information about seals. Use context clues to determine the


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\section*{Review}

Directions: Write your answers on the lines.

2. Would you like to live in either the Arctic or Antarctica? Answers will vary.
3. What adaptations would people who live (even for a short time) in these areas have
to make?
Possible answers: They would have to be prepared to live in extreme cold and to handle
ong periods of darkness.
Whattenaracteristics are commonto animals who live in the polar regions?
thick coat of fur, ability to find food, layer of fat for warmth
5. Name two animals that live in the polar regions. Possible answers:
polar bears
polar bears walruses
Wite three tacts you leaned
Answers will vary.

On each of the poles, there are six months of sunlight and six months of darkness each Answers will vary.
3. Write three facts you learned about explorers to the North or South Pole regions. Answers will vary.

Reading Comprehension: The Desert

\section*{Directions:
Yes or No.}


\section*{ANSWER KEY}

\section*{Reading Comprehension: Desert Weather}

Directions: Read the information about desor wean he. Then, answer the questions.
One definition of a desert is an area that has, on average, less than 10 inches of rain a year. Many deserts have far less than that. Death Valley in Califomia and Nevada, for
example, averages fewer than 2 inches of rain each year. The driest of all deserts is the example, averages fewer than 2 inches of rain each year. The diest of all deserts is the Alacts no Drain fell for 400 y years
parme
Soleserfs have a regular rainy season each year, but usually desert rainfall is totally unpredictablefle. An area a may have no nainfall for many years. Sometimes a passing cloud may look ike it will send relef to the waiting lana, but only e ghostrain tals. The temperature in the desert varies greatiy. The daytime temperatures in the desert frequently top 120 degrees. In Death Valley, temperatures have been known to reach 190 degreest 1 In most parts of the world, moisture in the e air works like a blanket to hold the hea
of the day close to the earth a night. But, because it has so litlle moisture, the desert has


rantallistereinarearinadeset? less than 10 inches
2. Where is the driest desert in the world?Atacoma Desert in Chile
3. What is a ghost rain? Hot, dry air dries up the raindrops 4. In other parts of the world. what works ds a bianketto hold thenear of tie day close to the earth at night? moisture in the air
What happens to the temperature in the desert at night? Temperatures can drop 50 or even 100 degrees.

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\section*{Review}

Directions: Write a three-sentence summary of these selections. Refer to the reading
Directions: Write a three-sentent
selections for review if necessary,
"Desert Plants
Answers will vary
"The Cactus Family
Answers will vary

\section*{Possible answers}
3. cacti They can survive for long periods without rainfall.
mesaute it has long roots to reach under-
ground water. Directions: \#nswer these questions.

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6. What is the purpose of cactus spines? They collect moistur and protect the cactus from animals.
Why does the mesquite have long roots? to reach water deep underground

Directions: Define these words. Then, use them in sentences of your ow
8. evaporation Sentences will vary
water loss due to heat/wind
sharp, needle-like growths on cacti

\section*{Context Clues: Desert Plants}

Direckins.
Deserf plants have special features, or adaptations, that allow them to survive the harsh
 supply of water during the long dry season. The tiny needles on some kinds of cacti may
number in the tens of thousands. These sharp thoms protect the cactus. They also form tiny shadows in the sunlight that help keep the plant from getting too hot. Other plants are able to live by dropping their leaves. This cuts down on the evaporation sun and heat by tough seed coots. When it prains, the seeds sprout quickly, bloom, and produce more seeds that can withstand long dry spells.
Some plants spread their roots closes to Earth's surface to quickly gather water when
tdoes rain. Other plants, such as the mesquite, have roots that grow 50 or 60 teet thelow
the ground to reach underground water supplies.
. Based on the other words in the sentence, \(\boldsymbol{X}\) continue to live
\(\boldsymbol{X}\) continue to live
-
bloomer in the desert
flower
4. Based on the other words in the sentence,
what is the corect definition of cacti? \(\bar{X}^{\text {a }}\) - type of sand dune than one cactus

2. Based on the other words in the sentence, what is the correct definition of
evaporation?
X water loss from heat
——boiling
Based on the other words in the sentence
what is the correct definition of
withstand
X put up with
stand with anothe
— take from
Sentences will vary.
hills of sand
a deep valley with very steep sides
change based on conditions
average usual, normal
another
unpredictable
not known in advance

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\section*{ANSWER KEY}

\section*{Main Idea: People in the Desert}

Long before Europeans came to live in America, Native Americans had discoverer ways of living in the desert. Some of these
Native Americans were hunters or belonge Native Americans were hunters or belonged
to wandering tribes that stayed in the desert for only short periods of time. Otherr learned to tarm and live in villages. They made theil
houses of trees, clay, and brush.
houses of trees, clay, and brush
The desert met all of their ne

lood, water, skins for clothing, materials for
tools, weapons, and shelter. For meat the
tools, weapons, and shelter. For meat, the desert offered deer birds and tabbits tor hunt When these animals were hard to find, the Native Americans would eat mice and llizards. Many desert plants, such as
The first Europeans in the American deserts were searching for furs and metals, like silver and gold. They explored but did not setlie in the desert. The early pioneers were usually
unsuccessiul at living in the desert. They found the great heat and long dry periods too difficult. When they moved away, they left behine great hear and long ary periods soo that slowly fell apart in the sun and wind.

\section*{\(X\)}

ways of successsully living in the desert. . Nafive Americans had discovered - Some Native Americans were hunters orbe,
e deserts of North America?
Native Americans
What did the Native Americans use to make their houses in the desert?
trees, clay, and brush
4. What kinds of food did the Native Americans find in the desert?
deer, birds, rabbits, prickly pear, mesquite, fruit,
furs and metals, like silver and gold

\section*{Main Idea: Camels}

\section*{Directions: Read the information about camels. Then, answer the question}

Camels are well suted to desert life. They can cope with infrequent supplies of food and water blazing heot during the day, low temperatures at night, and sand blown by high wind. There are two kinds of camess: the two-humped baction and the one-humped dromedary The durmedary is the largerf stomo.
the sun's rays. The hair on its stomach and legs is short to prevent ovemeating. When camels the sun s says. The hair onit stomach and legsis shorf to prevent overneaing. When
molt in the spring, their wool can be collected in tufts from the bushes and ground.
the legs ot the e The legs of the diomedary are much longer than those of the bactrian. Animals that live in very hot countries tend to have longer legs. This gives them a larger area of body surface
from which heat can escape. Bactrian camels sive in the deserts of central Asia where wintes are bifterly cold, so they are not as tall as dromedaries. as they walk. A camel's long neck allows it to reach the ground to drink water and eat grass without having to bend its legs. It also can reach up to eat leaves from trees. with out having to tobend st legs. it the con reach yp to eat teaves firm. trees, storage. When there is plenty of food, the camel's hump swe
and feels firm. During the dry season when there is litte food. and feels firm. During the dry season when there is ifile food.
the foti is used up, and the hump shinks and becomes soft.
1. What is the main idea of this selection?
X. Camels are well sulted to desert life
- There are two kinds of camels.
2. Based on the other words in the senten
whatis the correct definition of molt?
\(\overline{\boldsymbol{X}} \begin{gathered}\text { turns into a butfe } \\ \text { sheds its hair }\end{gathered}\)

3. What are the two kinds of camels? the bactrian and the dromedary 4. Why don't camels sink into the sand when they walk? They have special pads on their feet.
5. What is the purpose of a camel's hump? The hump is for fat storage

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\section*{Reading Comprehension: Desert Lakes}

Directions: Read the information about lakes in the desert. Then, answer the questions.

\section*{akes. While they may be a welcome sigh in the desent, the water in them is not fit for drinking. They are sall lakes. Rain from supplied with water, but the lakes are blocked in with nowhere to drain. Over the years, mineral salts collect in the water
and build up to a high level ander undrinkable. \\ Most desert lakes are only temporary
Occasional rains Occasional rains may fill them to depths}

or months, all the water has been dried up by the heat and sun. The dried lake beds that remain are called playas. Some playas
Perhaps the most unusual desert take is in central Australi, bis is call Perhaps the most unusual desert lake is in central Australia. It is called Lake Eyre. II is time. Sinceit was discovered in 1840 , it has been filled only two times. Both times, the lake
ompletely dried up again within a few years
It is salt water.
Why are the lakes in the desert salt lakes?
The lakes are blocked in with nowhere to drain, so
over the years, mineral salts collect in the water. Why are most desert lakes only temporary?
The heat and sun dry up the water quickly
4. What is a playa? a dried lake bed
5. What is the name of the unusual desert lake in central Australia?

Lake Eyre
6. How big is this desert lake? nearly 3,600 square miles


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\section*{Page 204}

\section*{Proper and Common Nouns}


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\section*{Verbs}

A verb is the action word in a sentence. It tells what the subject does (build. laugh. express, fasten) or that it exists (is, are, was, were).
Examples: Randy raked the leaves into a pile.
| was late to school today. Possible answers:
Directions: In the following sentences, write verbs that make sense.
Directions: in the following sentences, witie verbs that make sense.
1. The quarterback__threw the ball to the receiver.
1. The quarterback threw the ball to the rece
2. My mother made some soup yesterday.
2. My mother made some soup yesterday.
3. John delivers newspapers to make extra money.
4. The teacher Wrote the instructions on the board
5. Last summer, our family_took_ a trip to Florida to visit relatives

Sometimes, a verb can be two or more words. Verbs used to support other verbs are called helping verbs.
Examples: We were istening to music in my room. Chris has been studying for over 2 hours.
Direction in the foll
Directions: In the following sentences, write helping verb
of the given verbs. The first one has been done for you.
1. Michelle (witie) is writing a letter to her grandmother right now.
2. My brother (have) is having trouble with his math homework.
3. When we arived, the movie (star) had started already.
4. My aunt (live) has lived in the same house for 30 years.
5. Our football team (go) is going to win the national championship this year
6. My sister (takkhas been talkingon the phone all aftemoon!
7. I couldn't sleep last night because the wind (blow) was blowing so hard
8. Last week, Owen was sick, but now he (feel) is feeling__much better
9. Tomorrow, our class (have) is having a bake sale.
10. Mr. Rivera (collect) has collected stamps for 20 years.

\section*{Abstract and Concrete Nouns}

\section*{Concrete nouns name something that can be touched or seen.
Abstract nouns name an idea, a thought, or a feeling that cannot} Abstract nouns no
be touched or seen
Examples:
concrete nouns: house, puppy, chair
abstract nouns: love, happoiness, fear
Directions: Wite concrete or abstract in the blank after each noun.
\[
\begin{array}{ll}
\text { 1. loyaltyabstract } & \text { 8. door concrete }
\end{array}
\] 2. light bulb Concrete 9. allegiance abstrac
2. Ight bub concrele
3. quarter concrete
4. hope abstract
5. satellite \(\frac{\text { concrete }}{\text { 6. ability }}\) 10. Cuba concrete 11. Michael Jordan Concrete
7. patio concrete telephone concre 13. telephone Concrete

Directions: Wite eight nouns for each category.
\begin{tabular}{|c|c|}
\hline Concrete & Abstract \\
\hline 1. pool & 1. respect \\
\hline 2. mockingbird & 2. admiration \\
\hline 3. football & 3. worry \\
\hline 4. cucumber & 4. joy \\
\hline 5. Swingset & 5. courage \\
\hline 6. monkey & 6. grace \\
\hline 7. diary & 7. jealousy \\
\hline 8. lantern & 8. embarrassment \\
\hline
\end{tabular}
1. pool
2. mockingbir
3. football
4. cucumber
5. swingset
6. \(\frac{\text { diary }}{}\)
8. lantern 7. jealousy 8. embarrassment

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\section*{Verb Tenses}

Verbs have different forms
Examples:
Examples:
Present tense: I walk
Past tense: |walked
Present ense. 1 walk
Past tense: I walked
Future tense: I will walk
Directions: Write PAST if the verb is past tense, PRES for present tense, or FUT for future ense. The first one has been done for you.
PRES 1. My sister Sara works at the grocery store
PAST 2. Last year, she worked in an office,
PRES 3. sara is going to college, too.
FUT 4. She will be a dentist some day.
PRES 5. She says studying is difficult.
PAST 6. Sara studied pretty hard in high school, to
FUT 7. I will be ready for college in a few years.
PAST 8. Last night, I read my history book for two hours.
Directions: Complete these sentences using verbs in the tenses listed. The first one has
been done for you.
9. take: future tense My friends and । will take a trip.
10. talk: past tense we talked for a long time about where to go.
11. want: present tense Brianna wants to go to the lake.
12. want: past tense Jake wanted to go with us.
13. say: past tense
14. ride: future tense His parents said we will ride no We Will ride ourbikes. Dante and Jared already _packed lunches for us.

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\section*{ANSWER KEY}


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\begin{tabular}{|c|}
\hline \\
\hline \multirow[t]{18}{*}{\begin{tabular}{l}
Verbs have three principal parts. They are present past, and past participle \\
Form the past tense of regular verbs by adding ed to the present tense. \\
Form the past participle by using the past tense verb with a helping verb: has, have, or had. \\
Directions: Write the correct form of each verb. The first one has been done for you.
\end{tabular}} \\
\hline \\
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\end{tabular}

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Directions: Rewrite these sentences once using the past tense and again using the past
participle of each verb.
1. Todd begins tootbal practice this week.
TIdd began football practice this week.

Iodd had begun football practice this week.
2. She wears ser haririn braids.
She wore her hair in braids.

She had worn her hair in braids.
3. Idink two olosses of milk
I drank two glasses of milk.

Ihad drunk two glasses of milk.
4. The man is speaking to us.
The man spoke to us.

The man had spoken to us.
5. The dogs are eating.
The dogs ate.

The dogs had eaten.



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\section*{ANSWER KEY}

\section*{Be as a Helping Verb}

A helping verb tells when the action of a sentence takes place. The helping verb be ha several forms: am, is, are, was, were, and will. These helping verbs can be used in all

Past tense: Kenji was taking. We were eating
Present tense: I am coming. Simon is walkin
future tense: \(\mid\) will work. The puppies will ed
In the present and past tense, many verbs can be written with or without the helping verb
be. When the verb is witter with a fom of bee add ding. Was and is are used with singular
subjects. Were ond are are used with plural subjects.
Examples:
Present tense: Angela sings. Angela is singing. The children sing. They are singing
Past tense: | studied. I was studying. They studied. They were studying.
The helping verb will is always needed for the future tense, but the ing ending is not used
xamples:
Examples:
Future tense: I will eat We will watch
Directions: Underline the helping verbs.
1. Brian is helping me with this project.
2. We gere working together on if
3. Tess was painting the backgro Matt ond Malik were cleaning 5. Tomorrow, we will present our project to the cla

Directions: Rewrite the verbs using a helping verb. The first one has been done for you
6. Our neighborhood plans a garage sale.
7. The sale starts tomorrow.
8. My brother Doug and I think about things we sell.
9. My grandfather cleans out the garage. 10. Doug and I help him is planning is starting are thinking are thinking are helping

\section*{Be as a Linking Verb}

\section*{Alinking verb inks a noun or adjective in the preaicate to the subject. Forms of the \(y\)}

\section*{Examples:}

Present: My father is a salesma
Past: The store was very busy last night
future: Tomorrow will be my birthday.
In the first sentence, is links the subject (father) with a noun (salesman). In the second sentence, was links the subject (store) with an adiective (busy). In the third sentence will be links the subject (tomorrow) with a noun (birthday).
Directions: Circle the linking verbs. Underine the two words that are linked by the verb.
The first one has been done for you.
1. Columbus (5) the capital of Ohio.
2. By bedtime, Nicole bagber.
3. Andy Mill be the captain of our team.
4. Tuesday(0) \({ }^{\text {the }}\) firstday of the month.
5. I hate to say this, but we@rolost.
6. Ask him if the wate (B)
7. By the time I finished my paper. It Nas late
8. Spaghett(1ny favorite dinner.
9. The children erertafraid of the big truck.
10. Aliyan Nillbea good president of our clas
11. These lessons \(\sqrt{\text { req helpful }}\)
12. Nas hat report due today?


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\section*{Subjects and Predicates}

The subject tells who or what a sentence is about. The predicate tells what the subject
does, did, or is doing. All complete sentences must have a subject and a predicate.

\section*{\(\begin{array}{cc}\text { Examples: } & \\ \begin{array}{c}\text { Subject } \\ \text { Hamsters }\end{array} & \begin{array}{l}\text { Predicate } \\ \text { are commo }\end{array}\end{array}\) \\ \(\begin{array}{ll}\text { Subject } & \begin{array}{l}\text { Predicate } \\ \text { are common pets. } \\ \text { Hamsters } \\ \text { Pets }\end{array} \\ \text { need special care }\end{array}\)}

Directions: Circle the subjects, and underiine the predicates

dreins: Wre preacates to compleete tese sentences.
9. Baby hamsters

Answers will vary
10. Pet mice

Directions: Wite \(\mathbf{S}\) if the group of words is a sentence or \(\mathbf{N S}\) if the group of words is not


\section*{Which Noun Is the Subject?}

A noun is a word that names a person, place, or thing.
Examples: Andy, Mrs. Henderson, doctor, child, house, shirt, dog, freedom, country Often, a noun is the subject of a sentence. The subject tells who or what the sentence is about. In this sentence, the subject is Sara: Sara drank some punch. A sentence can
have several nouns, but they are not all subjects. noun in the sentences
subject of the sentence.

. armer) stocks this pond with fish.
Directions: Each sentence below has two subjects. Underline all the nouns, as you did above. Then, circle both subjects.
Example: Joe and Peter walked to school.



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\section*{Writing: Subjects and Verbs}
Directions: Decide which words in the box are subjects (nouns) and which are verbs. Wite
each word under the correct heading. Then, match each subject with a verb to make a sentence. Use each subject and verb only once. The first one has been done tor you.

The tired girls walked slowly home from school.
\(\qquad\)

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\section*{Complete Sentences} Directions: Write \(\mathbf{C}\) if the sentence is complete or \(\mathbf{F}\) if it is a fragment
1. C My mother and I hope to go to the mall this affernoon.
2. F to get shoes.


Directions: Write the missing subject or predicate for these sentences.
Answers will vary.
12. We
13. My parents
14. One day soon,
15. My favorite subject in school
16. \(\qquad\) went fishing on Sunday

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\section*{Writing: Subjects and Verbs}

\section*{Directions: Make each group of words below into a sentence by adding a subject,
verb, or a subject and \(a\) verb. Then, write \(\mathbf{S}\) over each subject and \(\mathbf{V}\) over each verb.}

Example: the dishes in the sink
\(\xrightarrow[\text { The dishes in the sink were dirty }]{\mathrm{S}}\)
1. a leash for your pet


Answers will vary
2. dented the table
3. a bowl of punch for the party
4. rinsed the soap out
5. a lack of chairs
b. bragging about his sister
. bragging about his sister
7. the cans on the shelf
8. with a flip of the wist

\section*{Direct Objects}

A direct object is a word or words that follow a transitive verb and complete its meaning. answers the question whom or what. Direct objects are always nouns or pronouns.
Examples:
We built
We built a doghouse Doghouse is the direct object. It tells what we built. Caired Elena. Elena is the direct object. It tells whom I called.
Directions: Underline the direct objects.
1. Maggy drew a picture of the doghouse. 2. Then, we bought some wood at the store 3. Erin measured each board 4. Who will saw the wood into boards? 5. Thad hammered nails into the boards. 6. He accidentally hith his thumb with the ho 7. Kirsten found some paint in the basement
8. Should we paint the roof?
9. Will you wite Spark's name above the door?
 10. Spell his name correctly.

Directions: Write direct objects to complete these sentence.
11. Will Sparky Iike \(\qquad\) nswers will vary
12. When we were finished, we put away
13. We washed out
14. We threw away
15. Then, to celebrate, we ate

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\section*{ANSWER KEY}


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\section*{Direct and Indirect Objects}

\section*{,}
1. Please give iim note card
2. My fother told a secret
3. I carefully examined the dinosaur bones.
4. Joseph decorated the banquet hall for the wedding.
5. Every night, I telephone my grandmother.
6. The head of the company offered fyy fathe) a new position
7. Too much pizza can give a stomachache.
8. Will you draw nop picture?
9. This new computer gives meadachel
10. Thomas discovered a new entrance to the cave
11. He showed (1) the rare penny.
12. While watching television, I wrote Marionaletter,
13. Mrs. Fetters will pay meten dollars for shoveling her sidewalk this winte
14. The teacher handed er classa surpise quiz.
15. Ilike to drink iced tea on summer days.
16. Mom bought inh new school supplies for kindergarten.
17. I had to pay he library) fine for overdue books.
18. My family enjoys playing football.
19. Each night my mom readsmone chapter of a novel.
20. The teacher gave (3S)ur report cards.


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\section*{Prepositions}

A preposition is a word that comes before a noun or pronoun and shows the relationship
-
The object of a preposition is a noun or pronoun that follows a preposition and
completes its meaning. A prepositional phrase includes a preposition and the object(s) of the preposition.
Examples:
The gitl
The girl with red hair spoke filst.
with is the preposition
With is the preposition.
Hair is the obiect of the preposition.
With red hair is a prepositional phiase.
In addilition to being subjects, direct
can also be objects of prepositions.


Directions: Underine the prepositional phrases in these sentences. Circle the prepositions
Directions: Underiline the prepositional phrases in these sentences. Circle the prepo
The first sentence has been done for you. 1. The name (f) our street is Redsail Cout


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\section*{Singular and Plural Pronouns}

Directions: Rewitite the sentences so the pronouns match the nouns they replace in gender
Directions: Rewirte the sentences so the pronouns match the nouns they replace in
and number. Change the verb form if necessary. The first one has been done tor you.
1. Canada geese are the best-known geese in North America. It was here when the

Canada geese are the best-known geese in North America. They were here when the first settlers came from Europe. A canada goose has a white patch from their chin to a spot behind their eyes.
A Canada goose has a white patch from its chin to a spot behind its eyes.
Canada geese can harm formland when it grazes in fields
Canada geese can harm farmland when they graze in fields.
4. Geese have tavorite fields where it likes to stop and eat

Geese have favorite fields where they like to stop and eat.
While most of the flock eats, some geese stand guard. He warns if there is any danget While most of the flock eats, some geese stand guard. They warn if there is any danger.
Each guard gets their turn to eat too
Each guard gets its turn to eat, too
Female geese usually lay five or six eggs, but she may lay as many as eleven Female geese usually lay five or six eggs, but they may lay as many as eleven.
While the female goose sits on the eggs, the male goose guards their mate
While the female goose sits on the eggs, the male goose guards his mate.

\section*{Possessive Pronouns}

A possessive pronoun shows ownership. A possessive pronoun can be used with the A possessive pronoun shows owne
name of what is owned or by itself.
Examples:
ook. The book is mine Thisis s sour sandwich. It is yours.
This is our room. The room is ours.

The possessive pronouns are my. your our his,
her their its. mine yours. ours. hers. and theirs.
 her their its, mine, yours, ours, hers, and theirs.
Possessive pronouns do not have apostrophes.

Directions: Complete the sentences with the correct possessive pronouns.
1. Ientered _my_picture in the contest. That farm scene is mine
2. Shelby entered her_picture, too, Do you see hers ?
3. Hal didn't finish_his_drawing. He left his__ at home.
4. Did you enter__your_clay pot? That looks like yours
5. One picture has fallen off ___ its stand.
6. Brian and Kendell worked together on a chalk drawing. That sketch by the doorway
is theirs
7. The judges have made ___their_choices.
8. We both wonl They picked both of ours
9. Here come the judges with our ribbons in their__hands
10. Your ribbon is the same as mine_.

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\section*{ANSWER KEY}

\section*{Writing: Possessive Pronouns}

A possessive pronoun shows ownership. Instead of witing "That is ilil's book." wite
"That is her book" or "That is hers." Instead of".| lost my pencil." write "I lost mine." Use "That is her book" or "That is hers." I Instead of "I lost my pencil." wite "I lost mine." Use
possessive pronouns to name what is owned or possessed. possessin
 Use mine, ours. yours, his, hers, and theirs when you do not name w
is possessed. Notice that possessive pronouns don't use apostrophes. Directions: Complete these sentences with the correct possessive pronoun Example: This book belongs to Jon. It is his 1. I brought my lunch. Did you bring yours ? 2. I can't do my homework. I wonder if Audrey figured out hers
3. Deepak saved his pretzels, but a ate mine hers
4. Our team finished our project, but the other team didn't finish theirs 5. They aready have their assignment. When will we get Ours ?

It's easy to confuse the possessive pronoun its with the contraction for it is, which is
spelled it's. The apostrophe in it's shows that the i in is has been left out.
spelled it's. The apostrophe in it's shows that the \(\mathbf{i}\) in is has been left out.
Directions: Write its or it's in each sentence below.
Examples: The book has lost tisc cover. Its going to rain soon

2. The horse hurt___ its lime leg
3. Every nation has its share of problems.
4. What is its name?

6. The teacher said it_ up to us.


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Interrogative and Relative Pronouns An interrogative pronoun is used when asking a question. The interrogative pronouns
are who, what and which. Use who when refering to people. Use what when refering
to things. Which can be used to refer to people or things. Dect Directions: Circle the interrogative pro
the pronoun refers to people or things.
Who) Drought this salad for the picnic?
people
Which car will we drive to the movies?
things
3. Unichgirl asked the question?
people
4. Nhat ime is it
things
5. What vill we do with the leftover food
things
6. Whos going to the swim meet?
people
Relative pronouns refer to the noun or pronoun that comes before them. The noun or pronoun to which tr tefers is called the antecedent. The relative pronouns are who
whom which and that. Who and whom refer to people. Which refers to things or animals. That can refer to people, animals, or things.
Directions: Circle the relative pronouns, and underine the antecedents.
1. My dog, (uhichis very well-behaved, never barks.
2. The story was about a girl wing wanted a horse of her own.
3. The bookcase which was full. toppled over during the night.
4. The man to whom' spoke gave me complicated directions.
5. The book hat) wanted had already been checked out of the library.

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\section*{Writing: Pronouns}

Sometimes, matching nouns and pronouns can be difficult.
Example: A teacher should always be fair to their students.
Teacher is singular, but their is plural, so they don't match. Still, we can't say "A teacher should always be fair to his students," because teachers are both men and women.
"His or her students" sounds awkward. One easy way to handle this is to make teacher plural so it will match their.
Example: Teachers should always be fair to their students.
Directions: Correct the problems in the following sentences by crossing out the incorect words and writing in the correct nouns and pronouns. (ff you make the noun plural. make the verb plural, too.) its
Examples: Ron's school won the cats are Acont should try to praise their friends' strong points. 2. The group finsheditsit work on time in spite of the deadilin 3. Aarents usually ive lot of faith in their children. 4. The company paid itts. workers once a week. 5. The train made its. dally run from Chicago to Detroi Stydents
Direction
1. Simon fell out of the tree and scraped_his__ arm
2. The citizens felt a deep pride in their_community.
3. Abby and Leah wear their_hair in the same style.
4. I dyed some shirts, but they didn't turn out right
5. The nurse showed the mother how to bathe her_bab
6. Our school made \(\$ 75\) from_ its_carnival.

\section*{Pronouns as Subjects}

A pronoun is a word that takes the place of a noun. The pronouns \(I\), we, he, she, it, you and they can be the subjects of a sentence.
Examples:
Il left the house early.
You need to be more
She dances well.
A pronoun must be singular if the noun it replaces is singular
A pronoun must be plural it the noun it replaces is plural. He A pronoun must be plurali if the noun it replaces is plural. He
she and it are singular pronouns. We and they are plural pronouns. You is both singular and plural.
Examples:
Jazmin practiced playing the piano. She plays well.
Andre and I are studying Atrica. We made a map of
Directions: Write the correct pronouns.
. Bobcats hunt at night. They__are not seen during the day
2. The mother bobcat usually has babies during February or March. She
may have two lifters a year.
3. The father bobcat stays oway when the babies are first born. Later, he he
helps find food for them
4. We have a new assignment. _____ it a project about bobcats.
5. My group gathered pictures of bobcats._We_made a display.
6. Stella wrote our report. She used my notes.

Directions: Circle the pronouns that do not match the nouns they replace. Then, write
the correct pronouns on the lines.
7. Two boys saw a bobcatHeold us what happened. They
8. Then, we saw a film. (theys sh
wed bobcats climbing trees. It

\section*{ANSWER KEY}



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\section*{ANSWER KEY}


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\section*{Prepositional Phrases as Adjectives}

\section*{Examples:}

The new boy with red hair
The tall man in the raincoat
The white house with green shutters
Directions: Underline the prepositional phrases used as adjectives.
1. The boy in the blue cap is the captain. 2. The house across the street is 100 years old. 3. Jo and Ty love muffins with nuts. 4. I lost the book with the green cover. 5. Do you know the girl in the front row? 6. 1 like the pony with the long tail. 7. The dog in that yard is not friendly. 8. The picture in this magozine looks like you


Directions: Complete these sentences with prepositional phrases used as adjectives.
9. I'd like a sandwich

Answers will vary.
10. Did you read the book
11. The dog \(\qquad\) is my favorite.
12. The woman \(\qquad\) is calling you
13. I bought a shirt
14. I'm wearing socks
15. I found a box

\section*{Demonstrative and Indefinite Adjectives}


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Interrogative and Possessive Adjectives


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Adverbs modify verbs. Adverbs tell when, where, or how. Man
Adverbs of time answer the questions how offen or when
Examples:
The dog. escapes its pen frequently.
Adverbs of place answer the question where.
Example: The police pushed bystanders away from the
accident scene.
Example: He carefully replaced the delicate vase.
each adverb answers on the line.
1. My grandmother walks ©ingerly a avoid falls.
2. The mice darted verywhereto escape the cat.
3. Where
3. He decisivell) moved the chess piece.
4. Our family frequenti) eniovsa night at the movies.
4. Our family requently
when/how often
5. (afer) we will discuss the consequences of your behavior.
when
6. The audience glanced (1) at the balcony where the noise originated.
where
7. The bleachers are already built for the concert.
when
8. My friend and Istudy faili) tor the upcoming exam
8. My friend and listudy falil) for
how often/when

Smart travelers eventually will learn to use travelers' chec

Adverbs of manner answer the questions how or in what manner.

Directions: Underine the verb in each sentence. Circle the adverb. Write the question


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\section*{ANSWER KEY}


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\section*{Placement of Adjective} and Adverb Phrases

Adjectives and adverbs, incluading prepositional phrases, possible to the words they describe to avoia confusion.
Example
Confusing: The boy under the pile of leaves looked for the ball Clear: The boy looked under the pile of leaves for the ball.

Directions: Rewite each sentence by moving the prepositional phrase
closer to the word or words it describes. The firist one has been done tor you.
1. A bird at the pet store bit me in the mall.

A bird at the pet store in the mall bit me
The woman was looking for her dog in the large hat
The woman in the large hat was looking for her dog.
3. This yard would be great for \(a\) dog with a fence.

This yard with a fence would be great for a dog.
4. The car hit the stop sign with the silver stripe. The car with the silver stripe hit the stop sign
My cousin with a big bow gave me a prese
My cousin gave me a present with a big bow
The house was near some woods with a pond.
The house with a pond was near some woods. till be back to wash the dishes in a minute.
lll be back in a minute to wash the dishes.
We like to eat eggs in the morning with toas
We like to eat eggs with toast in the morning.
. He bought a shirt at the new store with short sleeves.
He bought a shirt with short sleeves at the new store.
10. We live in the house down the street with tall windows.
We live in the house with tall windows down the street.

\section*{Writing: Adjectives and Adverbs}

An adjective is a describing word. It describes nouns. Adjectives
- Which one or what kind - the dog's slioppy ears, the lost child
- Which one or what kind - the dog's flopp
- How many - three wagons, four drowers

An adverb is also a describing word It describes verbs, adjectives, or other adverbs - How - ran quickly, talked quietly
- When - finished prompty, came yesterday
- How offen - sneezed twice, always win

Directions: The adjectives and adverbs are bold in theach
wite ADJ for adjective or ADV for adverb. Then, a
describes or to the verb the adverb describes
describes or to the verb the adverb describes
Example: A girl in a green jacket quickly
Example: A girlina green jacket quick \(A D V\)
1. An old mayor was elected twice.
1. An old movor was elected twic
ADVV ADJ
2. He carefully put the tall screen
2. He caDeuly put the tall screen between our desks.
3. The new boy in our class moved here from Phoenix.
\(A D V A D J\)
4. Today our soccer team finally made tis first goal.
5. The woman gently coaxed the frightened kitl

Directions: Use adjectives and adverbs to answer the questions below.
Example: The boy talked. (Which boy? How?)
The nervous boy talked loudly.
The plant grew. (Which plant? How?)
2. The birds flew. (How many? What kind? Where?)

\section*{Writing: Adjectives and Adverbs}


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Writing: Parts of Speech
Directions: Wite each word from the box in the column that
its part of speech. Some words can be isted in two columne


Directions: Write four sentences, using at least three words from the box in each one Mark each word as a noun (N), verb (V), adjective (ADJ), or adverb (ADV) \(\underset{\text { Example: Twenty people slowly walked through the town }}{\text { ADJ }}\)

Answers will vary.

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\section*{ANSWER KEY}


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\section*{Statements and Questions}

\section*{Directions: Write 10 statements and 10 questions}

Statements
Answers will vary.

\(\square\)
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\section*{Writing: Conjunctions}
too many short sentences make witing seem choppy. Short sentences can be combined o make writing flow better. Words used to combine sentences are called conjunctions. Examples: but, before, after, because, when, or, so, and
Directions: Use or, but, before, after, because, when, and, or so to combine each pair Possible answers:
Possible answers:
ed to shiver.
I was wearing my winter coat, but I started to shiver
2. Animals all need water. They may perish without

Because animals all need water, they may perish
3. The sun came out. The ice began to thaw. without it
\(\xrightarrow{\text { Because animals all need water, they may perish }}\) without it.
4. The sun came out. The day was still chilly.

The sun came out, but the day was still chilly.
5. Will the flowers perish? Will they thrive?

Will the flowers perish, or will they thrive?
The bear came closer. We began to feel threatened
When the bear came closer, we began to feel threatened
7. Winning was a challenge. Our team didn't have much experience

Winning was a challenge because our team didn't
8. Winning was a challenge. Our team was up to it. have much experience. Winning was a challenge, but our team was up to it. Directions: Write three sentences of your own. Use a coniunction in each sentence.

Answers will vary


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\section*{Commands, Requests, and Exclamations}

A command is a sentence that orders someone to do something. It ends with a period or an exclamation mark (1).
A request is a sentence that asks someone to do something. It ends with a period or a
question mark (?).
An exclamation is a sentence that shows strong feeling. It ends with an exclamation mark (1)
Examples:
```

        Command: Stay in your seat.
        Request: Would you please pass the salt?
        Exclamation: Call the police!
    ```

In the first and last two sentences in the examples, the subject is not stated. The subject is understood to be you.
Directions: Wie Cithe Directions: Write Cif the sentence is a command, Rif it is a request, and
C 1. Look both ways before you cross the street.
R 2. Please go to the store and buy some bread for us .
E 3. The house is on fire!
_ 4 . Would you hand me the glue?
C 5. Don't step there.
C 6. Write your name at the
R 7. Please close the door .
R 8. Would you answer the phone?
E 9. Watch out !
C. 10. Take one card from each pile.


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\section*{Statements and Questions}

A statement is a sentence that tells something. It ends with a period ()
A question is a sentence that asks something. It ends with a question mark ( )
Examples:
Statement: Shari is walking to school today
Question: Is Shari walking to school today
In some questions, the subject comes between two parts of the verb. In the examplas
he rest of the predicates are bold.
Examples:
Is Miguel coming with us?
Which one did you select
ro find the predicate, turn a question into a statement.
Example: Is Miguel coming with us? Miguel is coming with us.
Directions: Wite \(\mathbf{S}\) for statement or \(\mathbf{Q}\) for question. Put a period affer the statements and
aquestion mark after the questions.
Q 1. Today is the day for our field trip.
Q 2. How are we going to get there?
\(\mathrm{S}^{\text {3. The bus will take us. }}\)
\(\begin{array}{cc}\mathrm{Q} & \text { 4. Is there room for everyone? } \\ \mathrm{Q} & \text { 5. Who forgot to bring a lunch? }\end{array}\)
\(\frac{Q}{S}\). Who forgot to bring a lunch ?
S \({ }^{6}\). 1 III save you a seat.


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Commands, Requests, and Exclamations
Directions: Wirte six sentences for each type listed.
Command


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\section*{ANSWER KEY}

\section*{Writing: Four Kinds of Sentences}
```

There are four kinds of
A statement tells something. A period is used after statements
Examples: I jogged five miles yesterday.
| Jogged five miles yesterday.
A question asks something. A question mark is used after question
Examples: What are you wearing to the dance?
willit ever stop raining?
An exclamation shows strong feeling or excitement. An
ex
Examples: Boy, am I tired!
What a beautiful painting!
A command tells someone to do something. A
affer a command, depending on how strong it
Examples: Please hand me that pen. Don't touch the stove!
Directions: Write the correct punctuation mark at the end of each sentence below. Then, wirite whether the sentence is a statement, question, exclamation, or command.
Example: I didn't have time to finish my homework last night. statement

1. Why didn't she come shopping with us? question 2. Somebody call an ambulance ! exclamation 3. He's been watching TV all morning . statement 4. How did you do on the quiz? question 5. Go sit in the thid row command 6. I have to go to the dentist tomorrow. statement 7. I've never been so hungry! _ exclamation 3. Who tracked mud all over the house? question
2. That restaurant is too expensive. statement
```

\section*{Compound Subjects/Compound Predicates}
a compound subject has two or more nouns or pronouns joined
Examples:
Suki and Spot walked to the park in the rain Cars, buses, and trucks splashed water on them. He and I were glad we had our umbrella.
A compound predicate has two or more verbs joined by

\section*{Examples:}

Suki went in the restroom and wiped off her shoes. Chloe followed Suki and waited for he
A sentence can have a compound subject and a compound predicate. Example: Amelia and Maria went to the mall and shopped for ho Directions: Circle the compound subjects. Underline the compound predica


Directions: Write compound subiects to 90 with these pedicates


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\section*{Combining Subjects}

Too many short sentences make witing sound choppy. Often, we can combine
sentences with different subjects and the same predicate to make one sentence with a compound subject
Example:
Katrina tried out for the play. Austin tried out for the play
out for the play When sentences have different subjects and aifferent preaicates, must stay together. Two short sentences can be combined with muss staynction.

\section*{Examples:}

Katrina got a part in the play. Austin will help make scenery
Directions: If a pair of sentences share the same predicate, combin compound subjects. If the sentences have different subjects and predicates, combine them using and.
Racher read a book about explorers. Enic read the same book abour explorers Rachel and Eric read a book about explorers.
2. Rachel really liked the book. Enic agreed with her.

Rachel really liked the book, and Eric agreed with her. Ako went to the basketball game last niaht Dan went to the basketball game too Aiko and Dan went to the basketball game last night. 4. Aiko lost her coat. Dan missed his ride home.

Aiko lost her coat, and Dan missed his ride home.
5. My uncle planted com in the garden. My mother planted corm in the garden.

My uncle and my mother planted corn in the garden.
6. Isacac helped with the food drive last week. Amy helped with the food drive, too. Isaac and Amy helped with the food drive last week.

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\section*{Combining Predicates}

I short sentences have the same subject and diff
ito one sentence with a compound predicate.

\section*{Example}

Andy got up late this morning.
He nearly mised He nerly missed the school bus. morning and nearly missed the school bus.
he pronoun he

sentence, so the subjects are the same and can be combined
When two sentences have different subjects and different predicates, we cannot combine them this way. Two short sentences can be combined with a conjunction
Examples:
Andy got up late this morming. Pilar woke up early.
(
Directions: If the pair of sentences share the same subject, combine them with compound preacicates.
Kyle practiced pitching all winter. Kyle became the pitcher for his team
Kyle practiced pitching all winter and became the
2. Rishat suctied for his history test for two hours. Angela watched IV.

Kisha studied for her history test for two hours, but
Angela watched TV
Ethan had an earache and took medicine four times a Nikkil tóund a new hairstyle. Lliy didn't like that style. Nikki found a new hairstyle, but Lily didn't like that style.
5. Kirby buys his lunch every day. Sean brings his lunch from home. Kirby buys his lunch every day, and Sean brings his lunch from home.

\section*{Writing: Using Commas Correctly}

A comma tells a reader where to pause when reading a sentence. Use commas whe
combining two or more complete sentences with a joining word. Examples: We raked the leaves, and we put them into bags. Examples: We raked the leaves, and we put them into bags.
Brian dressed quickly, but he still missed the school bus.
Do not use commas if you are not combining complete sentences.
Examples: We raked the leaves and put them into bags.
If either part of the sentence does not have both a subject and a verb, do not use
a comma.
Directions:
Directions: Read each sentence below, and decide whether or not it needs a comma.
If it doess, rewwite the sentence, placing the comma correctly. If it doesn't, wite \(\mathbf{O K}\) on
It if doos, t
the line.
1. The cat stretched lazily and walked out of the room

OK
2. I could use the money to buy a new shirt or I could go to the movies.

I could use the money to buy a new shirt, or I could go
3. My sister likes pizza but she doesn't like spaghetti. My sister likes pizza, but she doesn't like spaghetti.

OK
5. The teacher passed out the tests and she told us to witie our names on them

The teacher passed out the tests, and she told us to
6. The car squealed its tires and took off out of the parkinglot.

OK
7. The snow fell heavily and we knew the schools would be closed the next day. The snow fell heavily, and we knew the schools would
The batter hit the ball, and it flew over the fence.


\section*{- Ihave a og
and friendly.}

I have a dog named Boxer and a cat named Phoebe. They are both well-behaved and friendly.
2. Jacob's basketball coach makes the team run for 20 minutes each practice and then he makes them play a ful
100 sit-ups. Jacob's basketball coach makes the team run for 20 minutes each practice, and then he makes them play a full game. Afterwards, he makes them do 50 push-ups and 100 sit-ups.
3. My family members each enioy different hobbies Mom likes to paint Dad likes to read like to play sports and my younger sister likes to build model airplanes although I think by harts.
My family members each enjoy different hobbies. Mom likes to paint, Dad likes to read, and I like to play sports. My younger sister likes to build model airplanes, although I think they are too hard.

\section*{ANSWER KEY}


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\section*{Combining Sentences}

Directions: Combine these sentences. Some of them can be combined using commas
and apoositives. Some can be combined using compound subiects or predicates. and appositives. Some can be combined usi
Others can be combined using conjunctions.
1. Alana enjoyed playing on the beach. Ty did not like the sand.

Alana enjoyed playing on the beach, but Iy did not like
2. Jelani studied hard for the math test. Kim studied hard for the math tes.

Jelani and Kim studied hard for the math test.
3. Ryan got sick. Ryan had to visit his family doctor.

Ryan got sick and had to visit his family doctor
4. Jeni is my study partner. Jeni is always running late for class.

Jeni, my study partner, is always running late for class.
5. Drake scored the game-winning touchdown. Drake is the team's star quarterback.

Drake, the team's star quarterback. scored the game-
6. Winning touchdown. were wouldn't start.

We were ready to leave, but the car wouldn't start.
7. Vanessa ran outside. Vanessa rode her bicycle to the park.

Vanessa ran outside and rode her bicycle to the park.
8. The fierce wind ruined our family picnic. The pouring rain ruined our family picnic

The fierce wind and pouring rain ruined our family pienic. 9. Mrs. Raposa handed me a new book about dinosaurs. Mrs. Raposa is the school librarian.

Mrs. Raposa, the school librarian, handed me a new book
10. School was out tor the summer. Amira was ready for new adventures,

School was out for the summer. and Amira was ready for
new adventures.


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\section*{Combining Sentences}

Examples:
Tony likes to play basketball. Tony is my neighbor. Tony, my neighbor ikes to play bosketball.
Ms. Herman was sick today. Ms. Herman is our math teacher. Ms. Herman, our math teacher, was sick today.
Appositives are set off from the rest of the sentence with commas
Directions: Use commas and appositives to comb


Julie, my sister, has play practice today
2. Greg fixed my bicycle. Greg is my cousin.

Greg, my cousin, fixed my bicycle.
Mr. Cruz told us where to meet. Mr. Cruz is our coach.
Mr. Cruz, our coach, told us where to meet
4. Tiffany is moving to Detroit. Tiffany is my neighbor.

Tiffany, my neighbor, is moving to Detroit.
5. Kyle has the fiu. Kyle is my brother.

Kyle, my brother, has the flu.
2. My favorite football team is playing tonight. Houston is my favorite team

My favorite football team, Houston, is playing
7. Bonnight enyor will be at our school next week. Bonnie Pryor is a famous author.

Bonnie Pryor, a famous author, will be at our
School next Week. Sarneignomeodis havng agage sale. Our neighborhood is the North End
Our neighborhood, the North End, is having a garage sale.

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\section*{Quotation Marks}

When a person's exact words are used in a sentence, quotation marks (" ") are used to
identify those words Commas are used to set oft the equotation tiom the rest of the sentence. End punctuation is placed inside the final quotation mark.
Examples:
"When are we leaving?" Joe asked.
Jada shouted, "Go, team!"
When a sentence is interupted by words that are not part of the quotation (he said. she answered. etc.),
they are not included in the quotation marks. Note how commas are used in the next example.
Example: "I am sorry," the man announced,
"for my rude behavior."
Directions: Place quotation marks, commas, and other
1.5Watch outlyelled Dad.

2. Angela saids, don't know how you can eat Brussels sprouts, Ted.
3. "sput on your coats,sbid Monf? We'll be leaving in 10 minutes"
4."'Did you hear the assignmen?Asked Salima.
5. Dominic shoutedithis game is driving me up the wall!"
6. After examining our dog, the veterinariarfssaid He looks healthy and strong",
7. The toddlers both waile d,'We want a snack!"
8. The Judge announced to the swimmerstrake your places",
9. Upon recelving the award, the actor saí,' d like to thank my friends and family,"
10. "These are my favorite granola barss,sald Becca.
10. "These are my fovorite granola barsssảdd Becca.
1. "This test is too hard moaned, the class.
3. "Where shall we go on vacation this year?"tad unners shouted.4 Hooray!"
14. As we walked past the machinery, the noise was deafening:"Cover your ears!" said Mom.
15. "FFirdyelled the chef as his pan ignited.
16. "'51 love basketball, \#hy litile brother stated.

\section*{ANSWER KEY}

\section*{Capitalization/Punctuation}

Directions: Rewite the paragraphs below, adding punctuation where ilt is needed. Caplalize
the first word of each sentence and all other words that should be capitalized. the first word of each sentence and all other words that should be capitalized
my mom is a geologists so she has the opportunity to travel offen for work last year she visted england scotland and ireland dad says that he hopes the whole family can come when she goes to the netherlands next year woula you like to have a job where you trave
or are you a homebody
My mom is a geologist, so she has the opportunity to travel often for work. Last year, she visited England, Scotland, and Ireland. Dad says that he hopes the whole family can come when she goes to the Netherlands next year. Would you like to have a job where you travel, or are you a homebody?
my cousin jeff is statring college this fall he wants to be a medical doctor, so he's going
to central university the mayor of our town went there mayor stevens told leff all about the univerisity our town is so small that everyone knows what everyone else is doing is your tow
ke that
My cousin, Jeff, is starting college this fall. He wants to be a medical doctor, so he's going to Central University. The mayor of our town went there. Mayor Stevens told Jeff all about the university. Our town is so small that everyone knows what everyone else is doing. Is your town like that?
my grandoarents took a 10 ong vacation last year grandma
ocean and watch the dolphins my grandfather likes to fish in the ocean \(m y\) aunt went with hem last summer they all had a party on the fourth of july
My grandparents took a long vacation last year. Grandma really likes to go to the Atlantic ocean and watch the dolphins. My grandfather likes to fish in the ocean. My aunt went with them last summer. They all had a party on the Fourth of July.



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\section*{Who Clauses}

A clause is a group of words with a subject and a verb
When the subject of two sentences is the same person or people, the sentences can sometimes be combine
with a who" clause.
Examples:
Layla ikes animals. Layla feeds the squirels.
Layla, who likes animals, feeds the squirels.

Directions: Combine the pairs of sa
1. Teddy was late to school. Teddy was sory later.

Teddy, who was late to school, was sorry later
2. Our principal is retiring. Our principal will be 65 this year

Our principal, who will be 65 this year, is retiring.
. Michael won the contest. Michael will receive an award.
Michael, who won the contest, will receive an award.
4. Alsha lives next door. Aisha has three cats.

Aisha, who has three cats, lives next door
. Devon drew that picture. Devon takes art lessons.
Devon, who takes art lessons, drew that picture.
Marta was elected class president. Marta gave a speech.
Marta, who was elected class president, gave a speech . Amy broke her arm. Amy has to wear a cast for six weeks.
Amy, who broke her arm, has to wear a cast for six weeks.
B. Dr. Chandra fixed my tooth. He said it would feel better soon.

Dr. Chandra, who fixed my tooth, said it would feel better soon.

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\section*{Who and Which Clauses}

Directions: Combine the pairs
using "who" or "which" clauses.
1. Bulfrogs are rarely found out of the water. They live near ponds and streams. Bullfrogs, which are rarely found out of the water, live near ponds and streams.
2. These frogs grow to be about 8 inches long. These frogs can jump 3 feet These frogs, which grow to be about 8 inches long, can jump 3 feet
3. Mark Twain was a famous witer. He wrote a story about a frog-jumping contest Mark Twain, who was a famous writer, wrote a story about a frog-jumping contest
4. This story took place in Callfornia. This story started an annual frog-jumping contest

This story, which took place in California, started an annual frog-jumping contest there.
5. The contest has rules and judges. The contest allows each frog to make three leaps. The contest, which has rules and judges, allows each frog to make three leaps.

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\section*{That Clauses}

When the subject of two sentences is the same thing or things, the sentences Can sometimes be combined with a "that" clause. Use that in
of which when the clause is very important in the sentence. Examples:
The store is near our house. The store was closed
The store that is near our house was closed
The words that is near our house are very important in the combined sentence. They tell the reader which store was closed.
Examples:
Pete's store, which is near our house, was closed.
The words which is near our house are not important to the meaning of the combined sentence. The words Pete's store already told us which store was closed.
Directions: Combine the pairs of sentences using "that" clauses.
The dog lives next door. The dog chased me
The dog that lives next door chased me
The bus was taking us to the game The bus had a flat tire
The bus that was taking us to the game had a flat tire.
3. The fence is around the school. The fence is painted yellow.

The fence that is around the school is painted yellow.
hkini. The notebook is lost
The notebook that had my homework in it is lost.
5. Aletter came today. The lefter was from Mary.
A letter that came to day was from Mary.

The lamp that was fixed yesterday doesn't work today.
The lake that is by our cabin is filled with fish.
The lak in

\section*{ANSWER KEY}
3. The Main Banki son the comer. The Main Bank is closed today.
4. The banki is on the comer. The bankis closed today.

The bank that is on the corner is closed today.
5. The bus takes Dad to work. The bus broke down.

The bus that takes Dad to work broke down. down.

\section*{That and Which Clauses}


The TV show that was on at 8:00 last night was funny.
2. The Snappy Show was on at \(8: 00\) last ight. The Snappy Show was funny.

The Snappy Show, which was on at 8:00 last night, was

The Main Bank, which is on the corner, is closed today.
6. The Broad Street bus takes Dad to work. The Broad street bus broke down. \(\frac{\text { The Broad Street bus, which takes Dad to work, broke }}{\text { down. }}\)


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\section*{Who's and Whose}


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\section*{ANSWER KEY}


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\section*{All Right, All Ready, and Already}

All right means "well enough" or "very well. "Sometimes, you may see all right spelled
alright. This is not the preferred spelling and is considered very informal.

\section*{Example:}

Cple:
Correct: We'll be all right when the rain stops.
Incorrect: Are you feeling alright today?
All ready is an adjective meaning "completely ready.
Already is an adverb meaning "before this time" or "by this time.
Examples:
Are you all ready to go?
He was already there when I arived
Directions: Write the correct words to complete these sentence.
allready. The children are all ready/already for the picnic. already 2. Ted was all ready/already late for the show. all right 3 . is your sister going to be all right/alight?
already 4. I was all ready/aready tired before the race began
already 5. Nadia has all ready/already leff for the dance.
all right 6 . Will you be all right/alight by yourself?
all ready. We are all ready/aready for our talent show. already8. I all ready/already read that book.
all readys, I want to be all ready/aready when they get here
all righto. Dad was sick, but he's all right/aright now.
all ready. The dinner is all ready/already to eat.
already 2. Brooklyn all ready/already wrote her report

\section*{Accept and Except / Affect and Effect}

\section*{Accept is a verb mearing "to receive.}

Except can be used as a verb or a prean
As a prepostion, it means "excluding.
Examples:
No one except Robert will receive an award.
Affect is a verb meaning "to impress one's thoughts or feelings."
Effect can be used as a noun or a verb. As a verb, it means.
Examples:


Her attifude may anfecher Hes during his first few \(m\).
The effectects of stheral chan worm will be fellt for some time.
Directions: Wite the correct words to complete these sentences.
effect
My partner and I will work to affect/effect atititudes toward rainforest renewa
accepted He courageously accepted/excepted the challenge of a chess duel. effect \(^{3}\). The affect/effect of the strike by tuck drivers was felt nationwide. effect 4. The new CEO of the company sought to affect/effect a change in except company morale.
accept 6. My grandmother will never accept axcent the tact that she can no
longer divive.
Except 7. Accept//xcept for this chewing incident, my puppy has been
affected 8 . The esights of the war affected/effected soldiers for the rest of their lives effect 9. What affect/effect will the drop in the stock market have on the
ffect average person?
effect 10. The affect/effect of the wind was devastating.
affect \({ }^{11}\). How will cheating on a test affect/effect your reputation?
except 12. I would like to go to the park on any day accept/except Monday

Review


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Page 290

Writing: Supporting Sentences
 The topic sentence in oparagaraph usually comens fist and
the main idea ofthe poragraph. Supporting sentences to
the


Directions: Write at least th
each topic sentence below
Example: Topic Sentence: Carly had an accident on her bike
supporting Sentences: She was on her way to the store to buy some bread. A car came weaving down the road and scared her. She rode her bike off the
road so the car wouldn'thit her. Now, her knee is scraped, but she's all right. road so the car wouldn't hit her. Now, her knee is scraped, but she's all righ
Answers will vary. . I've been thinking of ways I could make some more money after schoo


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\section*{ANSWER KEY}


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Page 296

\section*{Sequencing}

Sequencing means to place events in order from beginning to end or first to last
Example:
Get paper per, you must:
Get paper pencil or pent, an envelope, and a stamp.
Write the letter. Wite the lefter.
Fold the letter, an
Address the envelope correctly
Address the envelope correctly
Put a stamp on the envelope.
Put the envelope in the mailbox or take
it to the post office.
Possible answer:
Directions: Write the sequence for making a
peanut butter and jelly sandwich.
Get out bread, peanut butter, jelly, anda knife.
Spread jelly on one slice of bread.
Spread peanut butter on the other slice of bread.
Put the two pieces of bread together so peanut
butter and jelly sides are together.
Put away knife, peanut butter, and jelly Enjoy your sandwich.

Directions: After you finish, try making the sandwich exactly the way you wrote the steps.
Did you leave out any steps? Which ones?
Answers will vary.

Does a particulur section you wrote require a better explanation? Clarify your explanation
by adding missing information. Answers will vary.

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\section*{ANSWER KEY}


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Page 304

\section*{Writing: Supporting Your Opinion}

Directions: Decide what your opinion is on each topic below. Then, wite a paragraph
supporting your opinion. Begin with a topic sentence that tells the reader what you think supporting your opinion. Begin with a topic sentence that tells the reader whi
Add details in the next three or four sentences that show why you are right.
Example: Whether kids sh
while they do homework
Kids do a better job on their homework if they listen to music. The music makes the time more enjoyable. It also drowns out the sounds of the rest of the family. If things are too quiet while kids do
homework, every little sound distracts them.
Paragraphs will vary
Whether young people should have a choice about going to school, no matter how
old they are
\(\qquad\)
2. Whether all parents should give their children the same amount of money for
an allowance
\(\qquad\)
3. Whether you should tell someone if you doubt he or she is telling the truth
\(\qquad\)

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Friendly Letters

\section*{irections: Write a friendly letter. Then, address the envelope.}

Letters will vary but should follow the format on page 305

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Page 306

\section*{Writing from a Prompt: An Opinion Essay}

Directions: Wirte an opinion essay in response to the prompt
Writing Prompt: Think about raifforests. What is the importance of presening the
 craeas? What problems could arise for humans due to the presenvalion of fainforests?
How do rainforests How do rainforests c

Essays will vary.


\section*{Writing a Summary}

Directions: Re
the selection.
First Flights
In the first few years of the 20th century
most people strongly believed that human
most peoplip strongly believed that humans
daring invididual work worked to prove the
public wrong.
attempted to fly his version of an airplane
attempted to ty his version of an airplane
from the roof of a houseboot on the Potoma
River. Langley happened to be the secretar
of the Smithsonian Institution so his filight
covered not only by news reporters but also
by government officials. Unfortunately, his trip
met with sudden disaster when his aircraft dil
nose dive into the river-
Nine edays later, brothers Orville and Wibur Wright attempted a flight. They had assembled On December 17, the Wright brothors made several flights, the longest one lasting and. On December 17, the Wright brothers made several fights, the longest one lasting an
incredible 59 seconds. Since the Wright brothers had kept their fight attempts secret, theil miraculous fight was only reported by two newspapers in the United States. Summaries will vary.
\(\qquad\)
\(\longrightarrow\) \(\longrightarrow\)

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\section*{ANSWER KEY}


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\section*{Newswriting: Inverted Pyramid Style} Reporters organize their news stories in what is called the inverred pyramid style. The
inverted pyramid places the most important
thacts of the beginning of the story-called the lead (LEED)-and the least impooftrant facts ot the end.
There ore two procitical ressons for this approcach
(5) It the story must be shortened by an editor he or she can simply out paragraphs from the end of the story rather than rewriting the entire story
2) Because so much news and information is ovailable to the public,
few people read every word of every story, Instead. many reade tew people read every word of every story. Instead, many reade
skim headilines and opening paragraphs. The inverted pyramid style of writing enables readers to quickly get the basics of what Birections: Read the news story. Then, answer the questions

Introducing children to peanuts when they are young helps reduce the isk of
peanut allergies, a new study has found peanui aliergles, a new stuay has found
doctors' recommendations to parents of young babies and chilidren. Instead of parents to avoid peanuts in their chilidren's diets, doctors may now recommend that exposure has been shown to cut the risk of peanut allergies in children. Peanut allergies have become more common among children in recent years. Peanuts are banned from many schools and daycare centers, in hopes of preventing
severe reactions Peanuts are a delicious and nutritious source of prote in being used as a sandwich spread, they make a nice addition to dips and smoothies.

What is this news story about? a new recommendation to introduce 2. Where was the study about peanuts published? The Ney England Journal
3. How have doctors' views about peanuts changed? lied used to have voung doctors and parents

What two sentences coula you cuf from this article if you were an eaiton the last two sentences

\section*{Advantages and Disadvantages}

\section*{As in the comparison/contrast essay it is easiest to put all of the advantages in one
paragraph and the disadvantages in another paragraph.}

Directions: Wite enay
Writing Prompt: Think about what a society would be like if all people had the same shan tone, hair color, eye color, height, and weight. What would the benefits of living in such
a society be? Would there be any disodvantages? What would they bef
\begin{tabular}{|c|}
\hline Essays will vary. \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline Directions: When you finish writing, reread your essay. Use this checklist to help make corrections. \\
\hline \(\square\) My essay makes sense. \\
\hline \(\square\) I used correct spelling. grammar, and punctuation. \\
\hline \(\square\) I answered the witing prompt. \\
\hline \(\square\) I have varied sentence length. \\
\hline
\end{tabular}

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\section*{Writing: Just the Facts}

Some forms of writing. such as reports and essays, contain opinions that are supported
by the witer.In other kinds of writing however. it is important to stick to the facts. News by the writer.in other kinds of whifing, howeveri, it is importann to stick to the
reporters, for example, must use only facts when they wite their stories.
Directions: Read the following news story about a fire, and underine the sentences or parts of sentences that are opinions. Then, rewrite the story in your own words, giving
 \(\frac{\text { firefighters were verv courageous. The cause of the fire has nof yef been determined }}{\text { although faulty electric wiring is suspected. People should have their electric wiring }}\) although fauty electric wiring is suspected. People should have their electric wiring
checked requlariy The famili is staving with relatives until repais tother home can be
made, and they are probably very anxious to move back into their house. Paragraphs will vary.
- \(\qquad\)
\(\qquad\)
Page 315

Writing: You're the Reporter
Directions: Now, witte your own short news story about an interesting event that
occurred at your school or in your neighborhood. Find out who and what the story about, where and when it happened. and why and how it happened. Take some notes, interview some of the people involved, and write your story. Give your story a
fitte, and remember to stick to the facts In the box draw a picture (or "photo") to go with your story.

Answers will vary.


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\section*{ANSWER KEY}


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\section*{Writing: Similes and Metaphors}


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\section*{ANSWER KEY}


\section*{ANSWER KEY}


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Reference Sources: Languages, Social Studies
Reference sources are books and d therematerials that provide facts and intormation.

There are many other kinds of efeference sources on specific topics. Some of these are
Language:
1.. The American Hertitage Dictionary

3.M Math Dictionary for Kids by Theresas Fitgerarald
4. Xxtord Dictionary of Foreiogn Worcds and Phras
4. Axorac Dicitionaray
Andew Pela lanty
5.Scholossitic Childreñ's Thesaurus

\section*{Social Studies:}
1. Book of Black Heroes from \(A\) to \(Z\) by Wade Hudson and Valerie Wilson Wesley 3. Understanding Myself: A Kid's Guide to Intense Emotions and Strong Feelings by Marr C. LLamia
4. Meriam Wester
bster's Geographical Dictionary
Directions: Answer the questions.
1. Which book would be the best source for finding the meaning of the Spanish term que pasco? Oxford Dictionary of Foreign Words and Phrases
2. Which book would be the best source of information on Martin Luther King. Jr.? Book of Black Heroes from A to Z
3. Where would you find information on the average yearly rainfall in the Amazon? Merriam Webster's Geographical Dictionary 4. Which book would have information on women getting the right to vote? If You Lived When Women Won Their Rights
5. Where would you look for a list of terms that mean the same as incredible? Scholastic Children's Thesaurus

\section*{Reference Sources:} General, Science, and Technology These refe
How Things Work Encyclopedia
Whidren's Encyclopedia of American History
3. World Book Encyclopesida Kids ( (onine subscriptio
4. National Geographic Student World Atlas
5. United States Census Bureau website (Www.census.gov)

Science and Technology:
. A Fey Guidia to Rocks and
. national Wildilife Federation
(Dormpere Human Boad (Dook and DV-ROM) by Dr. Alice Roberts
Directions: Answer the questions.
reence sould you check to find a map of Polana
National Geographic Student World Atlas
2. Which source would you consu to find the most recent statistics on the number of single United States Census Bureau website (www.census.gov)
3. Where would you find the most complete information on the Milky Way and other
galaxies? The
where
A Field Guide to Rocks and Minerals
Che woulayou ind the nostcomplete nrom mation on the Boston Tea Party? Children's Encyclopedia of American History

\section*{Research}

Directions: Read about doing research. Then, answer the questions.
Step 1: Look in a general online encyclopedia, such as Encyclopedia Britannica Kids or Step 1:Look in a general o oline encyclopedia, such as Encyclopedia Bitannica Kids on
Fact Monster (which uses the Columbia Encyclopedia), for background information on your topic. Check for a bibliography at the end of the articie for clues to other sources
A bibliography lists all the books and magziness used to write the erticle. A bibliography lists all the books and magazines used to write the article. Step 2: Use a special encyclopedia for more specific information or for definitions of
special terms. How Things Work Encyclopedia, Children's Encyclopedia of American special terms. How Things Work Encyclopedia, Children's Encyclopedia of American
History, and Human Body: A Visual Encyclopedia are examples of special encyclopedias Step 3: Look tor a general book on your topic using the subject headings in the library
catalog. Be sure to note the copyright date (date published) on all books you select. For catalog. Be sure to note the copyight date (date pubished) on all books you select. For currenty toplcs, such as mealical research or computers, you will want to use only the mor
recently published and up-to-date sources. You will be most likely to find these using online resources.
Step 4: When using the internet to research a topic, be sure to use only trustworthy, reliable sites. Choose sites that are run by companies, schools, or organizations you've heard of, such as NASA, the Smith sonian Institution, National Geographic Kids, Time Magazine, PBS, or the National Gallery of Aft. If you're not sure whemera ste is reitabla
ask a parent or a teacher. 1.Name two general encyclopedias. Encyclopedia Britannica Kids and Columbia Encyclopedia
2. Name three special encyclopedias How Things Work Encyclopedia, Children's Encyclopedia of American
History, and Human Body: A Visual Encyclopedia
3. How can you tell whether a website contains trustworthy, reliable information? Choose sites that are run by companies, schools, teacher.

\section*{ANSWER KEY}


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\section*{Fiction, Nonfiction, and Biographies}

Fiction books are stories that are not based on facts or real
events. They are based on the imagination of the author.
Examples: picture book stories and novels
Nonfiction books are about facts or events that actually occu
Examples: reference books and history books
Biographies are written about a person's life. They are based on true events. Biographies Biographies are witten about a person's life. They are based on true events.
have been witten about Presidents and First Ladies, as well as other people. Directions: Use your library to answer the following questions. Answer will vary. 1. What are the titiles and authors of three fiction books? \(\qquad\)
2. What are the titles and authors of three nonfiction books?

What are the call numbers of the three nonfiction books you listed?

Directions: Use the library catalog to locate two biographies of each of the people listed
Wirections: Use the lilles, authors, and call numbers.
4. Abraham Lincoln
5. George Washington Carver
6. John F. Kennedy
7. Princess Diana
8. Pocahontas \(\qquad\)
\(\square\)
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\section*{Book Search: Fiction}

Have you ever been on a scavenger hunt? Usually, when you go on a
scavenger hunt, you need to find unusual items on a list. This scavenger hu scavenger hunt, you ned to find unusual ifems on a list. This scavenger hunt
will take place or your library. Instead of finding unusual items, you will need to find books.
Directions: find these books at your library. They will be in alphabetical order by the author's last name in the picture book section of the children's department. Then, answ author's last no
the questions.
Author: Margaret Wise Brown Title: Goodnight Moon
1. Where is the cow jumping over the moon?
in the picture
2. What is the old lady whispering? - \(\qquad\) Hush
3. How many kittens are in the stor? \(\qquad\) three
Author: Audrey Wood
Title: Napping House
4. In the beginning, what is everyone in the house doing? sleeping
5. What kind of flea is in this story? a wakeful flea
. What breaks at the end of the stor \(\qquad\) the bed

Author: Mo Willems
title: Knuffle Bunny: A Cautionary Tat
7. Who is Knuffle Bunny?
a stuffed bunny
-
She tries to use baby talk. and then she has a tantrum.
a. How does the story end?

They go back to the laundromat and find Knuffle Bunny there.


\section*{Book Search: Biographies} may be filed by call number according to subject.
Directions: Use the library catalog and the actual books to answer these questions. Answers will vary.
1. How many books can you find about Elizabeth Blackwell?
2. What is the title of one of the books? \(\qquad\)
3. How many books can you find about Kareem Abdul-Jabar?
4. What are the titles, authors, and call numbers of three books about George Washington?
\(\qquad\)
5. What are the titles, authors, and call numbers of three books about
.What are the titles, aut
Martin Luther King, Jr.?
\(\qquad\)
.What are the titles, authors, and call numbers of three books about Eleanor Roosevelt? \(\longrightarrow\)

What are the titles, authors, and call numbers of three books about Marie Curie?
\(\qquad\)

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\section*{ANSWER KEY}

\section*{Reports: Choosing a Topic}

Directions: Re
A report is a written paper based on the witer's research. It is logically organized and, if
it is a good report, presents information in an interesting way Reports can tocus on an it is a good report, presents information in an interesting way Reports can focus on many
different topics. A social studies report may provide information about a cily or state. A science report may explain why the oceans are polluted.
If possible, choose a topic you're interested in. Sometimes a teacher assigns a general topic to the whole class, such as the solar system. This is a very broad topic, so you must
first narrow it to a smaller topic about which you can write an interesting four-or five-page report. For example, your report could be on "The Sun, the Center of the Solar System" or Jupiter, the Jumbo Planet.
A narrower topic gives your paper a better focus. Be careful not too make your topic too
narrow, because then you may not be able to find much information about tif for your report
The inverted pyramid on the right shows how to narrow your topic from the general. at the
top of the pyramid, to the sppific

nee of these topics or select one of your own. Then, answer the questions \(\begin{array}{llll}\text { American wars } & \text { Games } & \text { Presidents } & \text { States } \\ \text { Famous American women } & \text { Solar system } & \text { Sports heroes } & \begin{array}{ll}\text { Ecology }\end{array}\end{array}\) What is a report? A report is a written paper based on the writer's research, and it presents information in an interesting way.
2. Which general topic did you choose? Answers will vary
3. What specific topic will you write about? Answers will vary.

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\section*{Encyclopedia Skills: Taking Notes}

A biography is a written report of a person's life. It is based on facts and actual events. To prepare to write a biographical essay, you could look up information about the al
Directions: Select one of the people listed below. Read about \(t\) |
enccclopedia. TTke notos to prepare for witing a biographical
essay. Then, use your notes to answer the questions.


Mikhail Baryshnikov
Jane Goodall
J.K. Rowing

Steve Jobs
Woodrow Wilson
Charles Darwin Marie Curie
Answers will vary
 born? \(\qquad\)
2.If deceased, when did the person die?
3. When and why did he or she first become famous?
4. What are some important points about this person's career?
\(\square\)
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\section*{Reports: Doing Research}

Directions: Review the information on pages \(333-335\) about doing library research. Then, read about how to do research for a report, and answer the questions Before starting your report, Iocate the most likely places to find relevant information for your
research. Ask the librarian for help if necessary. A good report will be based on at least three or four sources, so it's important to find references that provide varied information. Is the topic a standard one, such as a report on the skeletal system? A children's encyclopedia of the human body is a good place to begin your research. You may
want to look online for some children's webstites about the body and how it works. Does your report require current statistics and/or facts? Specific websites will probably be your best source for information. For example if you want to know the current population
of various endangered animals, you could visit the World widlife Fund site. Be sure to use sites that are credible and rellable. If you are not sure whether a site is reliable, ask a parent or teacher.
For current magazine articles, see if your school has a membership to the Reader's Guide
to Periodical Literature, which lists the names and page numbers of magazine articles to Periodical Lricty of topics Ift youneed geographical intormation magout a country. related to avarety of topics. If youneeg geoghianticad ent World Atlas.
check an atlas such as the National Geographic Stude
1. How many reference sources should you consult before witing your report? 3 or 4
2. What are two references that provide statistics and facts? encyclopedias and websites
3. Where will you find a listing of magazine articles? Reader's Guide to

Periodical Literature

\section*{4. Where should you look for geographical information? an atlas}
5. If you're stumped or don't know where to begin, who can help? llibrarian

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\section*{Reports: Making an Outline}

Title
1. First Main Ided
A. A supporting idea or fac
B. Another supporting idea or fact
C. An example or related fact
2. An example or related fact

Second Main Idea
A. A supporting idea or fact
B. Another supporting idea or fact
II. Third Main Idea
A. A supporting idea or fact
B. Another supporting idea or fact


Directions: Use information from your notes to write an outline for your report. Follow the above format, but expand your outtine to include as many main ideas, facts, and examples as necessary.

Outlines will vary but should follow the format above.
\(\qquad\) \(\longrightarrow\)
\(\qquad\) \(\square\)
\(\qquad\) \(\square\)

\section*{Reports: Writing the Paper}
eforiens: रeu beain more about witting a report. Then, write your report.
eur report be? Must it be typed? clearly understand what is expected. How long should
be written in pen? Should it be double-spaced egin the first draft of your report with a general introduction of your topic. In the introduction briefly mention the main points you will write about. One paragraph is usually enough to troduce your paper.
Next, comes the body of your report. Start a new paragraph for each main point. Include
information that supports that point.It you are writing a long report, you may need to write new paragraph for each supporting idea and/or each example Follow yeur outline to a new paragraph for each sinpporingnidea and/er each exampled. Follow your outine to topic, the body of the report will be anywhere from three or four paragraphs to several pages long.
hone or two concluding paragraphs, briefly summarize the main points you wrote about
in the body of the report, and state any conclusions you have drawn as
result of youl in the bod
Once you finish the first draft, you will need to edit and rewrite your report to make it read moothly and correc
the bestit can be.
If possible, put the report aside for a day or two before you rewrite it so you can look at it with fresh eyes and a clear mind. Professional writers often witte several drafts, so don't be scouraged about rewitits. Rewriting and editing are the erienced, relies on.


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\section*{ANSWER KEY}


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Page 349

\section*{Editing}

Editors and proofreaders use certain marks to note the changes that need to be made． also use the following marks to indicate other mistakes that need to be corrected．
\begin{tabular}{|c|c|c|c|c|}
\hline Heo Delete． & \(\hat{}\) & Insert a comma． & \({ }_{1}^{\text {is }}\) & Insert \\
\hline ant Remove the space． & \(\stackrel{1}{ }\) & Insert an apostrophe & \(\odot\) & Insert \\
\hline Infthis Inserta space． & v & Insert quotation marks． & sara & Capitaliz \\
\hline
\end{tabular}

Directions：Use editing marks to correct the errors in these sentences．Then，wite the
sentences correctly on the lines．
1．Mr．Ramsey was a man who liked to do nothing \(\odot\)
Mr．Ramsey was a man who liked to do nothing．
2．Lili，a young hawailan girl，liked to swim in the sea．
Lili，a young Hawaiian girl，liked to swim in the sea．
3．Youngsters who play baseballalways have a favorite player
Youngsters who play baseball always have a favorite player．
4．Too many people said，That movie was terible．
Too many people said，＂That movie was terrible．＂
5 ．I didn＇t wantto go to the movie with jader．\(\odot\)
I didn＇t want to go to the movie with Jaden．
6．Prince charles has two adult son．
Prince Charles has two adult sons
7．The little boy＇s name was gibert leonard longfello -
The little boy＇s name was Albert Leonard Longfellow．

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\section*{Editing}

Directions：Use edilitin
following sentences．
1．billy bob branstool was ent biggest bully at our school \(\odot\)

3.1 heard your mom say，＂give your mother a kiss．＂


6．ana and Liam knew the answers to the questions，but they would not raise \({ }_{\wedge}^{\text {their }}\) hand．
7．too many people were going to see the movie so we decided to go get pizza insteac．
8．
9．we lived in a small town called sophia，n्छٍ decided to move away．
10．we saw the mother fox bringing food to her cubs in the den．
11.1 was reading the book called hhaunting at midnight．

12．kevin and il decided that we would be detective bob and detective 兰亚ee． 13．there were thirteen questions on the test．kevin missed all but the first on¢
14．thirty of us were going on a fieldaltrip when suddenly the teachertold the bus driver to turn around．
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|r|}{Editing} \\
\hline ก⿵冂⿱一口㇒⿵冂卄 & Filp the words around；transpose． \\
\hline wanyut & Flip lefters around；transpose． \\
\hline TThat was when Peter began taiking． & Indent the paragraph or start a new paragraph． \\
\hline with you．The movie we went to see was good． & Move text down to line below． \\
\hline There were no people there．
Gason thought we should go． & Move text up to line above． \\
\hline
\end{tabular}

Directions：Use editing marks to edit this story．
The Fallen Log
There was once a log on the floor of a very damp and eerie forestotwo men came upon the log and sat down for a rest．these two men，leroy and larry， did not know that someone could hear every word they said．ä＇\(m\) so tired＂moaned larry，as he began unlacing his heavy hikinglooots，＂and my feet hurt，too．＂ before we＇ll find the cave with the hidden treasure besides， If you think you＇re tired，at（ook｜teet \(m\) m＂with thathe \(\bar{\equiv}\) kicked I won＇t be able to go any farthe？ about feet，enough！\({ }^{2}\) Larry and Leroy began IGking around them．theycouldn＇t see anyone．though．＂I＇m in hrfeyeyhe voice said hoarsely．
＂Quit complaining＂friend hisssaid．＂We＇ve got miles to walk off his tennis shoe and discovered a very red big toe．＂il think

Sh－h－h，alreadyl＂the two men heard a voice．＂enough


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\section*{Editing}

Larry and Leroy
larry and leroy jumped up from the log as soon as they realized that they were sitting on something that had a voice qilley，that was fast＂，said the voice． ＂How did you figure out where \(\frac{\underline{\underline{I}} \text { was？＂}}{}\)
 to a log．they looked at each other and then back at the log again．together they turned around and started walking down the path that had brought them to this point in the forestäHey where are you going？＂the voice called
＂Well．,\(\frac{\text { I－I－I }}{\underline{i}}\) don＇t know，＂Larry replied，wondering if he sospould be answering a log．＂Who are you？＂
＂I＇m a tiny elf who has been losilin this tree forlyears，＂said the voice． ＂Sure you are，＂replied Iary with what he and Leroy


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\section*{Proofreading}

Directions: Pro.
and spelling.
Be Wise When Buying a Car
Each year, about five percent of the U.S. popp to J.D. Link and Associates, a New York-based auto industry researerch company.
-A new car is the second most expenssive purchase most people \&Ver make,' says Link. "If's amazing how Itye reseerach people do before they enter the car
showroom:"
Link says rese \({ }_{\lambda}^{\text {artch }}\) is the most impotant Xhing a new car buyer can do to

price.
"the salespeople are not trying to get \(X\) ou the best deal," says Link. "they're trying to get themselves the best deal. Bezs smartl Read up on new cars online and in magazines ike Car and Driver and meotortrend before you talk to a \({ }_{\text {salienperson|- }}^{\text {s. }}\) * NEW MODELS



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\section*{Editing: Check Your Proofreading Skills}

\section*{Directions: Read about the things you should remember when you are revising your}
.
After vou have finshed witing your rough draft. you should reread il later to determine what changes you need to moke to ensure th's the best possible paper you are coppable of writing

Can I make the writing more lively?
Have I made errors in spelling, pun
Have 1 made e erors is speling, punctuation, or capitalization?
Is there any intomation thet should be efft
be leff out?
Directions: Revise the following stor by making changes to correct soelling punctuation and cap
not stick to to te topici.

\section*{Hunting for Treasure}

Tino one really believes me when I tell them that 1 ' \(a\) a treasure
hunter, \&ut reatry \({ }^{2}\) Iam. II isn't fust any treasure that I Ike
to hunt, though. 1 Ilike treasures related to coinsifusually,
when \(I\) go treasure hưing \(I\) go alone. Lalways wear my bivel
soat en
One day my good triend Jesse wanted to come with me."Why
would you want to do that \(77^{\text {asked }} 16\)
he replieqfllwnat Jesse did not know was that the doins that
dig tife fare not the coins that just anyone collects.
The coins Ilike are special. They are coins that have been
buried in dirif for years!

Proofreading
Proofreading, or "proofing," means to carefully look over what has been wirtten, checking for spelling
grammar, punctuation, and other errors. All goocd Wrammar., punctuation, and other erriors. Al good work before furning it into an editor-or a teache ere are three common proofreading marks: Correct spelling \(\stackrel{\mathrm{dog}}{\text { dot }}\) Replace with lower case lefter \(\mathcal{A}\)
Replace with capital letter a


Directions: Carefully read the following paragraphs. Use proofreading marks to mark errors in the second paragraph. Correct all errors. The first sentence has been done for you.

A six-alurm fire at 2121 windsor Terrace on the northeast
\(\qquad\)
\(\qquad\)
blazêe which caused \(\$ 200,000\) of property damage.


system for waking residents so they could get out safely. A sprinfekler system
 calm and \(\varnothing\) rderly."

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\section*{Ancient Egypt}

Have you ever wished you could visit Egypt for a first-hand look at the
pyramids and ancient mummies? For most people, learning about Egyp pyramids and ancient mummies? For most people, tearning
is the closest they will come to visting these ancient sites.
Directions: Test your knowledge about Egypt by witing as many of the
1. Write a paragraph describing what you already know about Egypt.


Answers will vary.
\(\qquad\)
2. Name at least two famous Egyptian kings or queens.

Possible answer: King Tut and Queen Nefertiti
What was the purpose of a pyramid?
Possible answer: to bury Egyptian kings in: to worship the gods

What was the purpose of mummification?
to preserve bodies after death
5. What major river runs through Egypt? the Nile

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\section*{ANSWER KEY}

\section*{Taking Notes: Egyptian Mummies} Taking notes is the process of witing important points to remember, such as taking notes
on material prepared by your teacher, what is discused in class, or an article you read. on material prepared by your teacher, what is discussed in class, or an article you read. When taking notes, follow these steps:
. Read the article carefully.
2. Select one or two important points
3. Wite your notes in your own words.
4. Reread your notes to be sure you un
5. Abbreviate words to save time.

Directions: Read about Egyptian mummies. Select
each paragraph. Write your notes in your own word.
After the Egyptians discovered that bodies buried in the hot, dry sand of the desert became mummifed, they began searching for ways to improve the mummification process. The use of natron became a vital part of embalming: a place in the desert where underground water rises to the surface. This water conta is many types of salts. Including table sall. It also contained natron. As the water evaporated
in the hot sun of the desert, the salts were left behind. Natron was then collected for use in the mummific he desent, the
in the mumminication process. The body was dried in natron for up to 40 days. The natron caused the body to shrink
ind and the skin to become leathery. For thousands of years, natron was a vital ingredient in preserving the bodies of kings, queens, and other wealthy Egyptian citizens
sample notes:
Paragraph 1 Bodies buried in hot dry sand became mummified.
Natron is vital for embalming.
Paragraph 2 Natron is a salt that is found when water from an oasis evaporates, leaving behind salts that were in it.
Paragraph 3 The body was soaked in natron for up to 40 days, causing it to shrink and the skin to become leathery Natron was used for thousands of years.

\section*{Outlining}

Outilining is a way to organize information before you write anssay
paragraph. Outilining helps you understand the information you read
This sample form will help you get started. When outlining, you can add more main points, more smaller points, and/or more examples.

\section*{Title}
1. First Main Idea
A. A smaleridea
1. An example
2. An example
2. An example
B. Another smaller idea
II. Second Main Idea
II. Second Main Idea
B. Another smaller idec
1. An example

IThird Main Idea
A. A smaller idea
A. A smaller idea
B. A smaller idea


Directions: Read about building pyramids. Then, complete the outline on the next page. The process of building pyramids began as a way to honor a king or queen. Since
he Egyptians belleved in an afterife. they thought it only ftiting for their kincs and the Egyptians believed in an afterilife, they thought it only fiting tor their kings and queens
to have elaborate burial tombs filed with treasures to enjoy in the afterife. Thus, the idea of the pyramid was born.
Af first pyramids ware
At first, pyramids were not built as they are known today. In the early stages of the nud-dried bricks. They formed a rectangular tomb with angled sides and a flat roof. Later, as the Egyptian kingdom became more powerful, kings fell they needed lather than mud, and were much taller. A large mastaba was built on the ground. hen four more mastabas (each smaller than the previous) were stacked on top. Finally, the pyramids took the shape that is familiar today. They were constructed with
a flat boftom and four slanting sides that ascended to a final point. One of the tallest s over 400 feet high. These pyramids were also built of stone and were finished with an exterior of white limestone.

\section*{Outlining: Egyptian Pyramids}

Directions: complete the outline. Then, answer the question
Possible answers: Egyptian Pyramids
. Mastabas A. Made of mud-dried bricks
B. rectangular tomb
C. angled sides and a flat roof
11. Step pyramids of stone
B. much taller than a mastab
c. large mastaba with four smaller mastabas
stacked on top
ili. Pyramids A. flat bottom and four slanting sides ascending to a final point
B. tallest is over 400 feet high
c. \(\frac{\text { built of stone and finished with white limestone }}{\text { exterior }}\)
\(\qquad\) Answers will vary.

\(\qquad\)


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\section*{Summarizing}

A summa
Example:
Tomb robbing was an important business in ancient Egypt. Offen, entire families architects, or guards, but they all probably had one thing in common laborers, officials, tomb in the builiding or designing of the tomb, or they wouldn'thave thad the knowledge necessary to successfully rob the burial stes. Not only did tomb robbing ensure a ric

Summary
Tomb robbing occurred in ancient Egyp. The robbers stole riches to use in their presen
ves or in their burials. Tomb robbers usually had some parti the building or design of the tomb. This allowed them to find the burial fooms where the treasures were stored.
Directions: Read about life in ancient Egypt. Then, wite a three- to five-sentence summary.


We have learned much from the pyramids and mummies. Women wore makeup made out of the minerals kohl and ocher and a plant called henna. Men wore eyeliner, too. Perfume made out of wax was also important to the ancient Egyptians

\section*{Summarizing: King Tut}

Directions: Read about King Tut. Then, write a five- to seven-sentence summary
King Tutankhamen (TO-TAN-KO-MEN) became king of Egypt when he was only nine years old. Known today as "King TUt," "he died in 13555 .... When he was 18 . Because King
Tut died so young, not much is known about what he did while he was king fut ded so oyoung, not much is known amout whathe deale whit's body was mummifed and buried in a pyramid in the of the Kings in Egypt. Many other kings of ancient Egypt were buried there also.
In 1922 , King Tut became famous when an Englishman named Howard Carte
 tomb. His was the only one in the Valley of the kings that had not been discovered and
robbed.
The king's tomb contained four rooms. One contained his mummy. The other rooms were filled with beautiful furniture, including King Tut's throne. Also found in Tut's tomb
were more than 3.000 objects. ike clothes, jewelry wine, food--and a trumpet that could still be played. Obviously, King Tut planned to live royally in the next
worlda!

Possible answer:
King Tut ruled Egypt from age 9 to 18 . Because he died so young, not much is known about his life. He was buried in the Valley of the Kings. His tomb
 was discovered by Howard Carter. All of King Tut's riches were still inside. There were more than 3,000 objects found in the tomb, including his mummy and his throne.

\section*{Place Value}
i.234, 1 has the place value of thousands, 2 is hundreds, 3 is tens, and 4 is ones

Example: \(1,250,000,000\)
Wirte: \(1,250,000,000\)


Directions: Read the words. Then, witie the numbers.
twenty million, three hundred four thousand
20,304,000
five thousand, four hundred twenty-three \(\quad 5,423\)
one hundred fifty billion, eight million,
\(150,008,001,500\)
one thousand, five hundred
sxty billion, seven hundred million
ne hundred thousand three hunded twelve \(\quad 60,700,100,312\)
four hundred million, fifteen thousand.
seven hundred one
six hundred ninety-nine million, four thousand. \(699,004,942\)
nine hundred forty-fwo \(400,015,701\)

Here's a game to play with a partner.
Witte a 10-digit number using each digit. 0 to
9 , only once. Do not show the numbert your 9. only onci. Do not show the number to your
parner. Give clues ike: There is a five in the hundreds place.". The clues can be given in an order. See if your partner


\section*{ANSWER KEY}


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\section*{ANSWER KEY}


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\section*{ANSWER KEY}


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\section*{ANSWER KEY}


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\section*{Adding and Subtracting Like Fractions}

A fraction is a number that names part of a whole. Examples of fractions are \(\frac{1}{2}\) and \(\frac{1}{3}\).
Like fractions have Like fractions
are \(\frac{1}{4}\) and \(\frac{3}{4}\).
To add or subtract fractions, the denominators must be the same. Add or subtract only the
numerators, the numbers above the line in fractions.
Example:
\begin{tabular}{|c|c|c|c|}
\hline ctions: Add or s & t these fractions. &  &  \\
\hline \(\frac{6}{12}-\frac{3}{12}=\frac{3}{12}\) & \(\frac{4}{9}+\frac{1}{9}=\frac{5}{9}\) & \(\frac{1}{3}+\frac{1}{3}=\frac{2}{3}\) & \(\frac{5}{11}+\frac{4}{11}=\frac{9}{11}\) \\
\hline \(\frac{3}{5}-\frac{1}{5}=\frac{2}{5}\) & \(\frac{5}{6}-\frac{2}{6}=\frac{3}{6}\) & \(\frac{3}{4}-\frac{2}{4}=\frac{1}{4}\) & \(\frac{5}{10}+\frac{3}{10}=\frac{8}{10}\) \\
\hline \(\frac{3}{8}+\frac{2}{8}=\frac{5}{8}\) & \(\frac{1}{7}+\frac{4}{7}=\frac{5}{7}\) & \(\frac{2}{20}+\frac{15}{20}=\frac{17}{20}\) & \(\frac{11}{15}-\frac{9}{15}=\frac{2}{15}\) \\
\hline
\end{tabular}


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\section*{Adding and Subtracting Unlike Fractions}

Unlike fractions have different denominators. Examples of unlike fractions are \(\frac{1}{4}\) and \(\frac{2}{5}\).
To add or subtract fractions, the denominotors must be the same.
Example:
Step 1: Make the denominators the same by finding the least common denominator. The
\(\frac{1}{3}+\frac{1}{4}=\quad \begin{aligned} & \text { Mutitipes of } 3 \text { are } 3,6,9,12,15 . \\ & \text { Muttiples of } 4 \text { are } 4,8,12,16 .\end{aligned}\) LCM (and LCD) \(=12\)
Step 2: Mumply by a number that will give the LCD. The numerator and denominator mu
A. \(\frac{1}{3} \times 4=4 \quad\) B. \(1 \times 3=\)

Step 3: Add the fractions. \(\frac{1}{3}+\frac{1}{4}=\frac{4}{12}+\frac{3}{12}=\frac{7}{12}\)
Directions: Follow the above steps to add or subtract unlike fractions. Wirte the LCM
\begin{tabular}{|l|ll|l|}
\hline \begin{tabular}{l}
\(\frac{2}{4}+\frac{3}{8}=\) \\
LCM \(=8\)
\end{tabular} & \begin{tabular}{l}
\(\frac{7}{8}\) \\
\(\frac{3}{6}+\frac{1}{3}=\) \\
LCM \(=\underline{6}\)
\end{tabular} & \(\frac{5}{6}\) & \begin{tabular}{l}
\(\frac{4}{5}-\frac{1}{4}=\) \\
LCM \(=\underline{20}\)
\end{tabular} \\
\hline \begin{tabular}{llll|}
\(\frac{2}{3}+\frac{2}{9}=\) & \(\frac{8}{9}\) & \begin{tabular}{l}
\(\frac{4}{7}-\frac{2}{14}=\) \\
LCM \(=\underline{9}\)
\end{tabular} & \(\frac{6}{14}\)
\end{tabular} & \begin{tabular}{l}
\(\frac{7}{12}-\frac{2}{4}=\) \\
LCM \(=12\)
\end{tabular} \\
\hline
\end{tabular}

The basketball team ordered two pizzas.
They left \(\frac{1}{3}\) of one and \(\frac{1}{4}\) of the other. They leff \(\frac{1}{3}\) of one and \(\frac{1}{4}\) of the
How much pizza was left?
\(\frac{7}{12}\)




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\section*{ANSWER KEY}

\section*{Improper Fractions}

An improper fraction an improper fraction is \(\frac{7}{3}\). An improper friaction should be reduced to its lowest terms Example: \(\frac{5}{4}\) is an improper fraction because its numerator is greater than its denominator Step 1: Divide the numerator by the denominator \(5 \div 4=1, r 1\)
Step 2: Write the remainder as a fraction: \(\frac{1}{4}\)
\(\frac{5}{4}=1 \frac{1}{4} \quad 1 \frac{1}{4}\) is a mixed number-a whole number and a fraction.
Directions. Follow he steps above to change ne mproper ractions to mixea numbers.
\begin{tabular}{|l|l|l|l|l|l|}
\hline\(\frac{9}{8}=1 \frac{1}{8}\) & \(\frac{11}{5}=2 \frac{1}{5}\) & \(\frac{5}{3}=1 \frac{2}{3}\) & \(\frac{7}{6}=1 \frac{1}{6}\) & \(\frac{8}{7}=1 \frac{1}{7}\) & \(\frac{4}{3}=1 \frac{1}{3}\) \\
\hline\(\frac{21}{5}=4 \frac{1}{5}\) & \(\frac{9}{4}=2 \frac{1}{4}\) & \(\frac{3}{2}=1 \frac{1}{2}\) & \(\frac{9}{6}=1 \frac{3}{6}\) & \(\frac{25}{4}=6 \frac{1}{4}\) & \(\frac{8}{3}=2 \frac{2}{3}\) \\
\hline
\end{tabular}

Sara had 29 duplicate stamps in her stamp collection. She decided to give them to four of she have left?
```

Name the improper fraction in this problem. $\frac{29}{4}$

```

What step must you do next to solve the problem?
change to a mixed number
Write your answer as a mixed number. \(\quad 7 \frac{\pi}{4}\)
How many stamps could she give each of her friends? 7

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\section*{Mixed Numbers}

A mixed nu mber is a whole number and a fraction together. An example of
Example: \(2 \frac{3}{4}\)


Directions. follow he steps above to change ne mixea numberstormproperfraction.
\begin{tabular}{|l|l|l|l|}
\hline \(3 \frac{2}{3}=\frac{11}{3}\) & \(6 \frac{1}{5}=\frac{31}{5}\) & \(4 \frac{7}{8}=\frac{39}{8}\) & \(2 \frac{1}{2}=\frac{5}{2}\) \\
\hline \(1 \frac{4}{5}=\frac{9}{5}\) & \(5 \frac{3}{4}=\frac{23}{4}\) & \(7 \frac{1}{8}=\frac{57}{8}\) & \(9 \frac{1}{9}=\frac{82}{9}\) \\
\hline \(8 \frac{1}{2}=\frac{17}{2}\) & \(7 \frac{1}{6}=\frac{43}{6}\) & \(5 \frac{3}{5}=\frac{28}{5}\) & \(9 \frac{3}{8}=\frac{75}{8}\) \\
\hline \(12 \frac{1}{5}=\frac{61}{5}\) & \(25 \frac{1}{2}=\frac{51}{2}\) & \(10 \frac{2}{3}=\frac{32}{3}\) & \(14 \frac{3}{8}=\frac{115}{8}\) \\
\hline
\end{tabular}

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\section*{Adding Mixed Numbers}

To add mixed numbers, first find the least \(c\)
Always reduce the answer to lowest terms.
Example: \(\quad 5 \frac{1}{4} \longrightarrow 5 \frac{3}{12}\)


Directions: Add. Reduce the answers to lowest terms
\begin{tabular}{|c|c|c|c|}
\hline \[
\begin{array}{r}
8 \frac{1}{2} \\
+7 \frac{1}{4} \\
\hline
\end{array}
\] & \[
\begin{array}{r}
5 \frac{1}{4} \\
+2 \frac{3}{8} \\
\hline
\end{array}
\] & \[
\begin{array}{r}
9 \frac{3}{10} \\
+7 \frac{1}{5} \\
\hline
\end{array}
\] & \[
\begin{array}{r}
8 \frac{1}{5} \\
+6 \frac{7}{10}
\end{array}
\] \\
\hline \(15 \frac{3}{4}\) & \(7 \frac{5}{8}\) & \(16 \frac{1}{2}\) & \(14 \frac{9}{10}\) \\
\hline \(4 \frac{4}{5}\) & \(3 \frac{1}{2}\) & \(4 \frac{1}{2}\) & \(6 \frac{1}{12}\) \\
\hline +3 \(\frac{3}{10}\) & + \(7 \frac{1}{4}\) & \begin{tabular}{l}
\(+1 \frac{1}{3}\) \\
\hline
\end{tabular} & +3 \(\frac{3}{4}\) \\
\hline \(8 \frac{1}{10}\) & 10 \({ }^{\frac{3}{4}}\) & \(5 \frac{5}{6}\) & \(9 \frac{5}{6}\) \\
\hline \(5 \frac{1}{3}\) & \(6 \frac{1}{3}\) & \(2 \frac{2}{7}\) & \(3 \frac{1}{2}\) \\
\hline \(\begin{array}{r}\text { + } 2 \frac{3}{9} \\ \hline 7\end{array}\) & + \(2 \frac{2}{5}\) & +4 \(\frac{1}{14}\) & \(\begin{array}{r}3 \frac{1}{4} \\ \hline\end{array}\) \\
\hline \(7 \frac{2}{3}\) & \(8 \frac{11}{15}\) & \(6 \frac{5}{14}\) & \(6 \frac{3}{4}\) \\
\hline \multicolumn{2}{|l|}{the boys picked \(3 \frac{1}{2}\) baskets of apples. The girls icked \(5 \frac{1}{2}\) baskets. How many baskets of apples id the boys and girls pick in all?} & 9 & \\
\hline
\end{tabular}


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\section*{ANSWER KEY}


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\section*{Dividing Decimals by Decimals}

\section*{When the divsor has a decimal polint, you must eliminate ft before edvaling. You can do this} by moving the decimal point to the right to create a whole number. Vou
decimal point the same number of spaces to the night int ine divend.
Somelimes you need to add zeros to do thls
Example: 0.25 [5.50 \(\quad\) changes to



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\section*{ANSWER KEY}


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Circumference
 trrough the center of ocrice ond hos both end ports on the circle.

rectesterts pi (proncunced pw) and is onon roptesentiod by inis Grook ymbol \(\pi\).

\(\mathrm{a}=10 \mathrm{~m}\).
c. 31.4 in
\(a=4 \pi\)
\(c=12.56 \mathrm{ft}\)
a \(=14 \mathrm{in}\)
c. 43.96 in.
\(a=3 y a\)
\(c-9.42 \mathrm{ycs}\)
\(d=12 \pi\)
\(\mathrm{c}=37.68 \mathrm{ft}\)

\section*{ANSWER KEY}

\section*{Circumference}

The radius of a circle is the distance trom the center of the circle to its outside edge. The
diameter equals two times the radius.
Find the circumference by multiplying \(\pi(3.14)\) times the diameter or by muttiplying \(\pi\) (3.14)
times 2 ( 2 times the radius).
\(\mathrm{C}=\pi \times \mathrm{d}\) or \(\mathrm{C}=\pi \times 2 r\)


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Diameter, Radius, and Circumference \(\mathrm{C}=\pi \times \mathrm{dor} \mathrm{C}=\pi \times\)
Directions: Write the missing radius, diameter, or circumference.
Katie was asked to draw a circle on the playground for a game during recess. If the radius of the circle needed to be 14 inches, how long is the diameter? 28 inches. What is the circumference? 87.92 inches

A friend told her that more kids could play the game if they enlarged the circle She had friend help her. They made the diameter of the circle 45 inches long. What is the radius? 22.5 inches What is the circumference? 141.3 inches

Jamie was creating an art project. He wanted part of if to be a sphere. He measured 24 inches for the diameter. What would the radius of the sphere bel 2 inches Find the circumference. 75.36 inches

Unfortunately, Jamie discovered that he didn't have enough material to create a sphere that Iarge, so he cut the dimensions in half. What are the new dimensions for his sphere?

\section*{Radius 6 inches}

Diameter 12 inches
Circumference 37.68 inches

\section*{Triangle Angles}
triangle is a figure with three comers and three sides. Every triangle contains three angles. The sum of the angles is always \(180^{\circ}\), regardless of the size or shape of the triangle. you know two of the angles, you can add them together, and then subtract the total from 30 to find the number of degrees in the third angle

Directions: Ind the number of degrees in the thira angle of each triangle.

\(75^{\circ}\)
 \(60^{\circ}\)

\(B=90^{\circ}\)
\(B=\underline{20^{\circ}}\)
 \(=\underline{155^{\circ}}\)

\(C=50^{\circ}\)
\(A=\underline{70^{\circ}}\)

\(A=40^{\circ}\)


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\section*{ANSWER KEY}


\section*{ANSWER KEY}


\section*{ANSWER KEY}


\section*{ANSWER KEY}


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\section*{Adjectives and Adverbs}

Choose a page or two from a book your child is reading. Go through the pages with your child, and underline all the adjectives and adverbs. Then, ask him to rewrite the paragraph, replacing all the adjectives and adverbs with synonyms and/or antonyms.

\section*{Basic Math Operations}

Addition, subtraction, multiplication, and division are the four basic math functions we use every day. Play counting games, including skip counting by threes, fours, etc. While tossing a ball back and forth, alternate turns counting by a given number. The person catching the ball says the next consecutive number in the sequence.

Make up word problems with addition, subtraction, multiplication, and division at odd moments when you are with your child, such as while traveling in the car, waiting at the doctor's office, or doing the dishes together. Use the situation to add relevance to the word problems. Include your child's name or friends' names in the problems. Examples: I) It is 375 miles to Grandma's house. We have traveled 217 miles. How much farther do we need to drive? 2) It is 375 miles to Grandma's house. We will take a break about half way there. After how many miles will we take a break?

Each day, post a math question on the refrigerator, and award a point to each family member who answers it correctly. Present a reward to the person who answers the most questions accurately during the week.

\section*{Capitalization}

Help your child develop listening skills while playing a capitalization game. Have your child listen carefully while you say a sentence. Ask him to tell you which word or words need to be capitalized and why.

\section*{Chapter Books}

Invite your child to write a different ending or a new chapter to a story. If your child can logically build on previous plot events, you will know that he has grasped the main ideas of the story.

\section*{TEACHING SUGGESTIONS}

Your child is now reading chapter books. These books usually have very few pictures. Check your child's comprehension by having her draw pictures representing the action or problem for each chapter. Before starting each new chapter, ask your child to predict what will happen.

\section*{Fact or Opinion?}

Many advertisements are confusing or misleading. Your child should be aware that not everything in an ad may be factual. Cut out ads from magazines and newspapers, or listen to ads on the radio or television. Help your child sort through the information. Ask her to point out the parts that are facts and those that are opinions.

For a period of about 5 minutes, have your child keep a record of sentences she hears friends or family members saying. Then, have your child review the list of sentences and decide which ones are facts, which ones are opinions, and which ones are neither facts nor opinions. Have her explain the reasons for the classification.

\section*{Fractions}

Let your child cut sandwiches into fractional parts other than one-half or onequarter. Ask her to cut a pizza into equal parts. Calculate the fraction of the pizza each member of the family can eat.

\section*{Homophone Challenge}

Homophones are words that are pronounced the same but are spelled differently and have different meanings, such as to, two, and too. Challenge your child to a contest to see who can write the most homophones.

\section*{Kitchen Math}

Baking and cooking are great opportunities for using math skills like measurement, multiplication, and fractions. Have your child help double or triple a recipe and calculate the ingredients needed.

If your child invents a new recipe, encourage her to write down both the ingredient list and the steps to follow in making the dish. Be sure to share the recipe with family members and friends.

On your shelves or at the grocery store, ask your child to find items labeled in standard or metric units. At home, work together to change a recipe to metric measures.

\section*{Measurement}

A tape measure is a great learning tool. Let your child measure and compare the size of various objects. Challenge her to find two unlike objects with the same perimeter.

\section*{Money}

Involve your child in math activities dealing with money. Ask her to estimate prices on a shopping list, calculate change, double check a bill at a restaurant, and calculate tips.
Have your child determine how she spends her money. When your child receives a money gift or allowance, ask her to figure the percent spent on savings, gifts, and items purchased.

\section*{Newspaper Activities}

On your shelves or at the grocery store, ask your child to find items labeled in standard or metric units. At home, work together to change a recipe to metric measures.

Cut out or print out articles of interest to your child-ones about neighborhood events, people you know, or items relating to school or special hobbies and favorite sports. Some children will find newspaper reading less intimidating and more appealing when they read only one article a day.

Read news articles with your child. Help him find the "who, what, when, where, why, and how" answers to the stories. Each week, help your child write one news article about something that has happened in his life.

\section*{TEACHING SUGGESTIONS}

Ask other family members to write short articles, too. Combine the articles, and make a family newspaper once a month. Send the articles to family and friends when you write or send cards.

Ask your child, "lf a news article were about something that happened to you today, what would the headline say?" Encourage your child to think up short, snappy headlines to summarize an event.

\section*{Opinions}

Write a thought-provoking question on a piece of paper, and post it on the refrigerator early in the day for all family members to read and think about. At dinner or in the evening, use that topic for a family discussion. Encourage your child to give reasons for his opinions.
You might pose a question about a fad or fashion, a current TV series, or a computer game. Let your child and other family members take turns writing the question of the day.

Use the time you spend taking a walk or riding in the car with your child to discuss the pros and cons of your question of the day. Encourage your child to look at both sides of an issue to see other viewpoints.

\section*{Parts of Speech}

Copy sentences from a book, newspaper, or magazine article. Ask your child to read the sentences aloud. Then, have him identify the part of speech of each word. If he has trouble, suggest consulting a dictionary. Most dictionaries list the part of speech for each word.

Help your child practice recognizing parts of speech as you travel. Point out billboards, and ask your child to name the part of speech for each word in the advertisements.

\section*{TEACHING SUGGESTIONS}

\section*{Percents}

Help your child collect family data on time usage, such as time spent sleeping, driving to work, or in school. Ask him to create a graph showing time usage or to calculate the percent of a day or week spent doing various tasks.

\section*{Possessive Adjectives and Apostrophes}

Write a story that contains several phrases with possessive adjectives, such as Mom's keys or Joshua's backpack, and leave out all the apostrophes. Have your child go through the paragraph and insert apostrophes where needed.

\section*{Practical Math}

If you are planning any project involving measurement and materials, such as planting a garden, building a doghouse, buying new carpeting, or painting a room, involve your child in the process by letting him help measure and calculate expenses. Create a supply list together. Use ads to find prices and calculate the total cost. Explore alternate ways to complete the project at a lower cost.

\section*{Prefixes, Suffixes, and Root Words}

Write a list of common root words, prefixes, and suffixes. Write the root words on squares of colored construction paper, the prefixes on squares of another color, and the suffixes on squares of a third color. Help your child mix and match the squares, seeing how many different word combinations he can make. Ask your child for the meaning of each new word created.

\section*{Proofreading}

Help your child proofread letters and reports he writes. Proofreading consists of checking for grammatical errors and correcting spelling, punctuation, and capitalization errors. Make the corrections together until your child is able to handle proofreading on his own. Even when you write using a word

\section*{TEACHING SUGGESTIONS}
processing program, material needs to be read and checked. Spell checkers are helpful but cannot find and correct all types of errors.

Have your child help you with your own writing, whether it is a short report or memo for work or an email to a friend. Ask your child to use her proofreading skills to check for errors before you write the final draft.

Choose a paragraph from a book your child is reading. Rewrite the paragraph, leaving out all punctuation and capitalization. Ask your child to proofread the paragraph, putting in correct punctuation and capitalization without looking back at the book. She can check the book when finished.

\section*{Reading Labels}

Reading and understanding labels is a skill everyone needs. As you shop, let your child read labels to compare ingredients and other nutritional information. Reading labels will help your child become a better consumer and may encourage her to eat more healthful foods.

Stress the importance of reading labels and following directions, particularly on medications or products that may be hazardous.

\section*{Recalling Details}

As you read with your child, encourage her to picture what is happening. Forming a mental picture will help your child recall the story using the "mind's eye," as well as the ear. Then, ask her to retell the story, noting details from the beginning, middle, and end.

\section*{Sequencing}

Print out a newspaper or magazine article. Cut the article into separate paragraphs. Ask your child to arrange the paragraphs in the correct order. (Keep in mind that the final story may not be in the exact order as the original but may still make sense.) Discuss with your child why she chose that particular sequence and why it makes sense to her.

\section*{TEACHING SUGGESTIONS}

\section*{Spelling}

Have your child keep a spelling log in which she writes previously misspelled words. Ask your child to write each word several times and also use it in a sentence.

Together with your child, review the writing exercises she has done in this book, looking for spelling errors. Then, have your child correct any misspelled words, using a dictionary if necessary. As an alternative, write short paragraphs or sentences that contain minor spelling and punctuation errors. Invite your child to find the mistakes, and have her rewrite the sentences correctly.

\section*{Summarizing and Comparing}

Visit the library, and borrow two copies of a book so both you and your child can read and discuss the book together. After each chapter, ask your child to summarize story events. Discuss what you both liked and disliked about the book, the characters, and the plot. Encourage your child to compare and contrast the book with another she has read.

\section*{Synonyms and Antonyms}

Play a synonym/antonym game when you and your child are together for an extended time, perhaps on a walk or a long car ride. Say a word, and ask your child to name a synonym or antonym for that word. If your child is correct, ask her to take a turn in thinking of a word.

\section*{Using Reference Sources}

If your child has a question about a topic in a newspaper or magazine article, use various reference sources to find the answer. If you don't have the references you need at home, go to the library with your child and help her find the answer.

Help your child do research on the Internet to find up-to-the-minute information on a variety of topics. Be sure to teach your child Internet safety and closely monitor her use of the Internet.

\section*{TEACHING SUGGESTIONS}

Select a topic of the month for you and your child to research. Prepare a report together. Select one of the topics below or come up with one of your own.

The history of a sport
A specific IO-year period of American history
The Constitution or Declaration of Independence
The development of computers
Virtual reality
Follow the steps of the writing process as you prepare the report together.
I. Gather information from reference sources.
2. Take notes listing the main points. Summarize what you have read, and write an outline.
3. Write a research paper based on the information you found.
4. Edit your work. Make corrections, and rewrite if necessary.

A good dictionary, along with a thesaurus and access to an online encyclopedia, is a valuable resource. When you and your child come across a word you don't know, look it up together. Check the pronunciation. Use the word in a sentence.

\section*{Word Games}

Word games, such as crossword puzzles and word scrambles, will expand your child's vocabulary and develop his spelling skills. You can find word games and puzzles online, in the newspaper, or in puzzle books at the library or bookstore.

\section*{Writing Experiences}

Help your child write friendly lefters to relatives and friends. Saying "thank you" in writing is a good habit for your child to learn. Thank-you notes can be sent for giffs and for thoughtful actions, like an invitation from a friend's parents for dinner or an overnight visit.

Read several movie reviews with your child. Then, watch a movie of your child's choice, and invite him to write a movie review. You may want to write one yourself. Compare the two, and discuss why you felt differently/similarly about the movie.

Show your child that writing is important. Make sure he sees you and other family members writing frequently. Invite your child to help you write grocery lists, letters or emails to relatives and friends, holiday cards, and notes to other family members. Let your child see you proofreading and correcting your own writing.

An anthology is a collection of short stories, poems, essays, etc. by one author. As your child completes a writing project or special piece of artwork, save it in a three-ring binder. Date each item. When the binder is full, pack it away and start another. Save the full binders until your child is older. Gift wrap one and give it to your child as a unique present for a special occasion.

Encourage your child to keep a personal journal. You might suggest writing topics, but your child should understand that the journal is his outlet for thoughts and feelings. Make it clear that you will not check or correct the journal and that you will not read it unless he chooses to show it to you. Encourage your child to write every day about anything he wishes. Suggested topics might include a trip to the store, an episode of a favorite TV show, going to the park, favorite things to with friends, or favorite foods.

If you have access to the Internet, have your child write to someone using email. Whether on a computer or with paper and pen, the format of a letter is the same. Stress correct grammar, spelling, punctuation, and sentence structure.

\section*{Writing Poetry}

Help your child use metaphors, similes and alliteration to create poetry.
Encourage your child to illustrate his poems for greater visual effect or write his best poems with glittery pens on fancy paper. Or, type your child's

\section*{TEACHING SUGGESTIONS}
original poetry and print it out, perhaps with a fancy border. Frame and hang the poems in your home for all to enjoy.

Read favorite poems to your child to give her a better appreciation for this type of writing. Then, write a "tandem poem" with your child. Either you or your child can start by writing a single line or stanza, and then giving the poem to the other to continue. Switch back and forth until the poem is complete. You may want to decide on a length before beginning the poem. You can carry out this exercise over the course of several days. When the poem is finished, ask your child to illustrate it, and display it prominently in your home. Help your child brainstorm topics to write about in a poem. You may want to use one of the following suggestions: All About Me, What If?, A Strange Dream, What I Smelled, The Perfect Day, The One That Got Away, If Wishes Came True, or What I Saw.

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