

	Language Skills	Spelling	Reading
Monday (Different Kinds of Writing Have your child write an imaginative story about how a constellation came to be. See Language Skills, Week 28, number 1.	Pretest your child on these spelling words: arrange dance reduce bore divide shake capture explore strange compare give surprise create mend tame crowd promise write Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Library Skills Have your child read chapters 11 and 12 of Number the Stars. Ask your child to define neutrality. Then, have your child list five topics about which his/her feelings are neutral. Review the organization of the card catalog or the computer index at the library. See Reading, Week 28, number 1.
Tuesday	Have your child write a narrative about a personal experience, describing the events in sequential order. Let your child choose whether to write in the first person or in the third person.	Review this week's spelling words. Have your child complete Serving up Suffixes (p. 288).	Have your child read chapters 13 and 14 of <i>Number the Stars</i> . Then, have him/her write about the symbolic use of the story, "Little Red Riding Hood." Review the Dewey decimal system and call numbers. <i>See</i> Reading, Week 28, number 2.
Thursday Wednesday	Have your child think of his/her favorite place or favorite thing to do. Then, have him/her write a descriptive paragraph about it. Encourage your child to use all five senses in his/her description.	Have your child use each of this week's spelling words correctly in a sentence.	Have your child read chapters 15 and 16 of <i>Number the Stars</i> . Take your child to the library to research Sweden's history of neutrality or to look up the training of guard dogs. While at the library, continue your discussion of the Dewey decimal system. Have your child use the card catalog or computer index to identify call numbers for given topics. Examples: koalas, gardening, limericks, organic chemistry, eastern religions, soccer, tangrams, Latin.
	Have your child write a paragraph that gives detailed directions. Encourage your child to use clear language and to keep the directions simple. See Language Skills, Week 28, number 2.	Have your child study this week's spelling words.	Have your child read chapter 17 and the afterword of <i>Number the Stars</i> . Have your child complete You Be the Judge (p. 289). Return to the library. Design an activity sheet for your child to complete using the card catalog or computer index. Questions should require your child to find books by a certain author, books on a particular subject and specific titles. Then, give your child several books to shelve.
Friday	Have your child write a persuasive paragraph in which he/she tries to convince someone to believe or do something. First, have your child decide whom he/she is trying to persuade and what he/she wants the person(s) to think or do.Then, have your child write a persuasive argument with supporting details to convince the intended audience.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Choose a final project for your child to complete that will demonstrate his/her understanding of the book <i>Number the Stars</i> . See page 13 for book project ideas.

		week 20
Math	Science	Social Studies
Decimals Decimals are very similar to fractions. See Math, Week 28. Demonstrate that decimals are simply fractions with 10, 100 or 1000 in the denominator. Teach your child how to read decimals. See Math, Week 28, numbers 1 and 2. Have your child read about decimals in an encyclopedia. Then, have your child look for numbers in the newspaper that are written as decimals.	Force, Motion and Work Introduce the science of force, motion and work. A force may be a push or pull on an object. Forces create motion, which can be used to accomplish work. The rate of motion can be affected by friction, gravity and other forces. See Science, Week 28, number 1. Have your child add a glossary page on force, motion and work to his/her Science Log. See Science, Week 28, number 2.	Famous Inventors In addition to being great politicians, Thomas Jefferson and Benjamin Franklin were also creative inventors. Have your child read about their inventions. Have your child draw a picture of Monticello, the home that President Jefferson designed and built. Then, have your child write a paragraph describing some of the unique features of the house.
Make several copies of Base-Ten Squares (p. 290). Teach your child how to shade the boxes to represent given decimals. Each base-ten square represents 1, or the whole. The square is then divided into 100 little squares. Each little square represents one hundredth (0.01). Ten little squares (or a bar) make up one tenth (0.1), your child should recognize that this is the same concept as fractions. <i>See</i> Math, Week 28, number 3.	Have your child begin a concept map of force, motion and work. Have your child write "force, motion and work" in the center of a large piece of paper and circle it. Then, have him/her draw lines radiating out from the circle for subheadings. Fill in the subheadings and details as you study them in the unit. Key terms might include gravity, speed, friction, pressure, laws of motion, simple machines and compound machines.	Have your child choose one major invention and write a report about it. The report should include information about the life of the inventor, the need for this invention, how it was conceived, what impact it had and any improvements that have been made on the invention since its inception.
Teach your child to read decimals to the thousandths place. Discuss how large a thousandth would be in the base-ten squares. Ask your child to imagine the size of a thousandth of an inch or a thousandth of a football field. Have your child read aloud some decimals with thousandths: 0.008, 0.032, 0.215, 0.875. Lead your child to discover that digits appearing far to the right of the decimal point represent smaller and smaller numbers.	Have your child look for a definition of force in a science textbook or another resource. Demonstrate force and motion with a simple activity. Discuss the different types of force. See Science, Week 28, numbers 3 and 4.	Discuss today's inventions. What sorts of things are people inventing today? Discuss the fields (science, medicine, etc.) that generate most of today's inventions. How has the nature of inventing changed since the time of Thomas Edison? Ask your child to think of a need that is not being met. Have your child design (on paper) an invention that will fill that need. If time permits, your child may even want to try and build his/her invention.
In baseball, batting averages are expressed in decimals to the thousandths place. A batting average is the number of hits divided by the number of times at bat. Gather the batting averages of some of the greatest baseball players of all time. Have your child arrange the averages in order from highest to lowest. Then, ask your child questions that require him/her to add and subtract the averages. This will provide great practice with decimals.	Have your child read about and define the force of gravity. Discuss the contributions of Sir Isaac Newton. The force of gravity pulls objects toward the center of the earth. It acts upon objects in motion, causing a change in the object's trajectory. If you throw a ball into the air, the force of gravity pulls the ball downward. Have your child name other examples of the force of gravity (waterfalls, parachuting, skydiving, jumping off a diving board, seesawing).	Discuss the history of transportation. How have people moved from one location to another over time? Ask your child to choose one form of transportation (boat/plane/train/car) and research its history. What did the earliest form look like? When was it invented? Who were the key inventors in its development? Have your child draw pictures to show the progression of the form of transportation. What will cars (boats/planes/trains) look like in 20 years?
Dictate 10–15 number words to your child. Have him/her write each number in decimal form. Use a variety of numbers. Examples: one thousand and eleven hundredths (1000.11) seven thousand fifteen and six hundred twenty-five thousandths (7015.625) eight tenths (0.8) Review your child's work immediately and reteach, if necessary.	Investigate gravity with your child. Help him/her perform the experiment described in Egg Drop (p. 291). Have your child read about the lack of gravity in space. Why is this so?	Arrange for your child to perform some community service.

TEACHING SUGGESTIONS AND ACTIVITIES



LANGUAGE SKILLS (Different Kinds of Writing)

- 1. Look at pictures of constellations with your child. Name some of the constellations. Stargazers, since the beginning of time, have made pictures by connecting the stars with imaginary lines. Many of the constellation names are accompanied by imaginative stories that explain their origins. Copy the constellation at right for your child to study. Have your child name the constellation and write an imaginative story about the group of stars.
- The Constellation Orion
- Have your child follow written directions to complete a drawing.

Example: Draw a five-inch square in the center of the paper. In the upper right corner of the square, make a circle with a one-inch diameter. Draw a second circle just like it in the upper left corner of the square. Color the circles green. Color the square orange. Write your name below the square.

Next, have your child write a paragraph giving simple directions. Discuss how to make the directions clear and concise. Follow your child's directions and see if you create the desired results. If your results are different than your child expected, discuss which steps could be written more clearly.

READING (Library Skills)

- Spend some time at the library this week. Libraries use a cataloging system to keep track of books and to help you locate books easily. A card catalog contains three sets of cards: subject, title and author cards. Each book in the library is represented by these three cards. A computer index allows you to access books through the same three categories.
- 2. The Dewey decimal system is used in many libraries. Call numbers in this system are made up of numbers and letters. The number tells you where in the library the book is found and the letters represent the author's last name. Call numbers are arranged first by number, then by letters. **Example:** 92.1 Ab comes before 92.1 Tr.

000-099	General works (encyclopedias, bibliographies, periodicals, journals)
100-199	Philosophy and related disciplines (philosophy, psychology, logic)
200-299	Religion
300-399	Social Sciences (economics, sociology, law, civics, education, vocations, customs)
400-499	Language (languages, grammar, dictionaries)
500-599	Pure sciences (biology, botany, zoology, chemistry, physics, mathematics, astronomy,
	geology, paleontology)
600-699	Technology and applied sciences (medicine, engineering, agriculture, home economics,
	radio, television, aviation, business)
700-799	The arts (painting, music, photography, recreation, architecture, sculpture)
800-899	Literature (novels, plays, poetry, criticism)
900-999	Geography, history and related disciplines

MATH (Decimals)

BACKGROUND

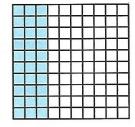
Decimals and fractions are both systems for naming parts of a whole. Use the same models to teach decimals as fractions, but stress that decimal fractions are always a power of 10. Just as numbers to the left of the decimal have place value, so do numbers to the right. The first place to the right of the decimal is the *tenths* place (0.5 = five tenths). The second place to the right is the *hundredths* place (0.03 = three hundredths). The third place to the right is the *thousandths* place (0.008 = eight thousandths). Place value to the right increases infinitely just as it does to the left.

One slice of a pizza that is cut into ten pieces can be represented as \(\frac{1}{10}\). This same quantity can be represented in decimal form as 0.1 (read "one tenth"). Five slices of the same pizza can be written as \(\frac{1}{10}\) or 0.5 (read "five tenths"). Fractions with 100 parts, such as pennies, are written with a denominator of 100. Seventy-five pennies is \(\frac{7}{10}\) of a dollar in fraction form and 0.75 in decimal form. Eight pennies can be written as \(\frac{1}{10}\) or 0.08. The placement of the 8 is very important. A misplaced decimal point could change 0.08 (\(\frac{1}{10}\)) to 0.8 (\(\frac{1}{10}\)).

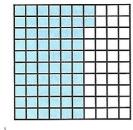
- 2. Always read a decimal as a fraction. Read 3.14 as "three and fourteen hundredths," not as "three point fourteen" or "three point one four." Reading the decimal as a fraction reinforces its meaning. Since all decimals are to be read as fractions, they will all end in a th sound, as in tenth, hundredth and thousandth. The word and is used to separate the whole number from the decimal fraction. Read 214.37 as "two hundred fourteen and thirty-seven hundredths." Finally, to reinforce the idea that a decimal is part of a whole, always include a value in the ones place to the left of the decimal point (0.4, not .4).
- 3. Have your child color a base-ten square to represent a decimal fraction.

Examples:

0.3 (three tenths)



0.62 (sixty-two hundredths)



Now, have your child try shading these decimals.

0.4	. 0.7	0.2	0.5	0.43	0.59
0.20	0.54	0.73	0.11	0.99	0.05

SCIENCE (Force, Motion and Work)

- 1. Collect pictures of the following for your child to observe: tools, machines, playground equipment, amusement park rides, cars, airplanes, boats, exercise equipment, athletic events and people working. Ask your child to name what is in motion in each picture. Ask your child to name the force that set it in motion. Have your child classify the pictures into those with a strong force and those with a weak force.
- Add the following words to this week's spelling list. Have your child look up each word in a dictionary or science resource. Discuss the meaning. Have your child make a glossary of force, motion and work words. Have him/her arrange the entries in alphabetical order and write a definition for each word.

and a standard		machine	procesuro	wodae
acceleration	gravity	machine	pressure	wedge
force	inclined plane	motion	pulley	weight
friction	laws of motion	pendulum	screw	wheel and axle
fulcrum	lever	power	speed	work

3. Place a block on a table and push it gently across the surface. Ask your child whether the motion was caused by a push or a pull. Continue pushing until it falls off the table and hits the floor. What force caused the motion this time? (pull by gravity to the floor) Have your child then pick up the block from the floor and explain the force used to do this task. Explain that a force can be either a push or a pull. Have your child name the type(s) of force at work in the following situations:

What force is used to throw a baseball? (push)

What force is used to open a door? (pull or push)

What force is used to paddle a boat? (push and pull)

What force is used to raise a window? (push)

What force is used to cut an apple? (push)

What force is used to cut paper with scissors? (push and pull)

Discuss the motion caused by natural forces such as wind, water, ice, volcanoes, earthquakes, tornadoes and hurricanes. What type of motion occurs with these forces? Can the forces be singled out as either pushes or pulls?

Serving up Suffixes

Week 28

A **suffix** is a group of letters added to the end of a root word to form a new word. When the root word ends in silent **e**, you usually drop the final **e** before adding the suffix.

arrange bore capture compare create crowd dance divide explore give mend promise reduce shake strange surprise tame write

Examples: trade + ed = traded move + er = mover

surprise + ing = surprising

Use the spelling words to write the correct root word.

- 1. comparing _____ 9. shaker
- 2. surprising ______ 10. taming _____
- 3. promised ______ 11. arranged _____
- 4. captured _____ 12. giving
- 5. dancer _____ 13. bored
- 6. writing _____ 14. reducing _____
- 7. stranger _____ 15. divided _____
- 8. creating _____ 16. exploring _____

Write the two spelling words you have not used. Then, **write** each one, adding the **ed** and the **ing** endings.

1._____

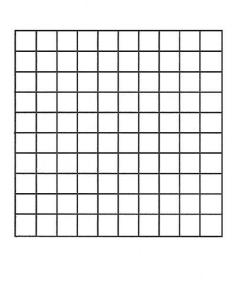
Brainstorm and list more words to fit the rule.

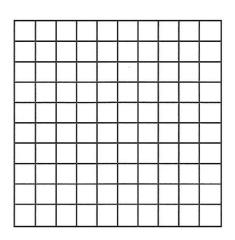
You Be the Judge

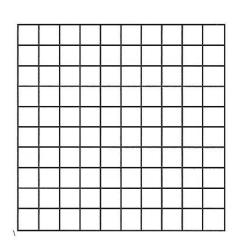
- 1. Rank these people from 1 to 4, with 1 being the bravest. Explain in one paragraph why you ranked them this way. _____ Henrik ____ Mrs. Rosen ____ Kirsti ____ Mama 2. How would you compare this book with the last book you read? How is it similar? How is it different? Title of last book: _____ **Different** Similar 1._____ 1._____ 3.____ 3. Write three sentences from different chapters in the book that you believe illustrate the emotion of fear. Page no. _____ Page no. _____ Page no. _____
- 4. Argue either for or against this statement: *Number the Stars* is a book written especially for girls because its main character is a girl.

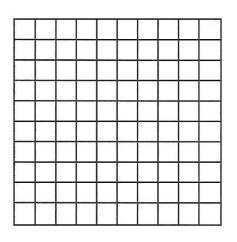


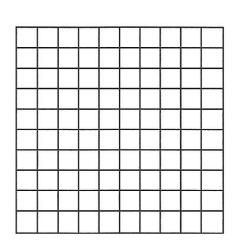
Base-Ten Squares

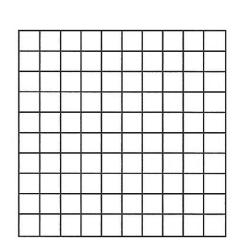


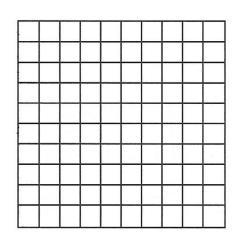


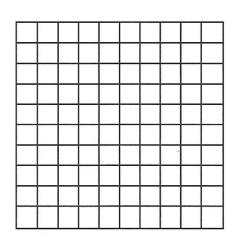


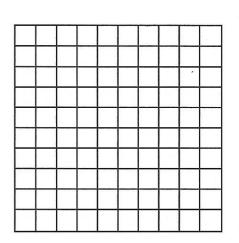












Egg Drop

Week 28

Gravity is the force which pulls all objects toward Earth. Some materials can insulate and cushion an object from the impact of gravity. Paper, foam cups, cloth and similar materials are good insulators.

You will need:

Collect as many of these materials as possible before beginning the project: newspaper, foam pieces or "peanuts," pantyhose, pieces of cloth and string. You will also need one or more raw eggs and a shoe box or cardboard carton.

Experiment:

The goal of this experiment is to have an egg survive from the highest possible height. Use the collected packaging materials to protect the egg inside the cardboard carton or shoe box. Be as creative as you can when wrapping the egg. Let an adult hold the package as high as possible or use a ladder to stand on. He/she will drop the package. Check your egg. Did it break?

If your egg didn't break the first time, have an adult drop it from a higher

point. Did it break this time?

From how high do you think the egg can be dropped before it breaks?

	Language Skills	Spelling	Reading
Monday (Help your child choose a writing topic for this week's writing assignment. Have your child follow the steps in the writing process as he/she writes independently this week. For more information on the writing process, see page 6. Have your child make a plan for writing, then begin work on the rough draft today.	Pretest your child on these spelling words: attached drawing repeated attended enjoying scalding avoiding escorted scooter builder established seller catcher poster spelling concerned prisoner younger Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Introduce <i>The Muffin Fiend</i> by Daniel Pinkwater. Before reading Pinkwater's book, have your child read about Mozart in a nonfiction source. Have your child read <i>The Muffin Fiend</i> up to page 25.
Tuesday	Let your child continue to work independently on his/her writing project. Review writing and grammar skills as the need arises.	Review this week's spelling words. Have your child complete Searching for Suffixes (p. 296).	Discuss the story elements so far. Have your child identify the characters, setting and problem. Ask your child to predict the solution to the problem before reading further. Have your child read the rest of <i>The Muffin Fiend</i> . Discuss the solution to the problem. How accurate was your child's prediction?
Wednesday	Let your child continue to work independently on his/her writing project.	Have your child use each of this week's spelling words correctly in a sentence.	Discuss what type of literature The Muffin Fiend is. Is it an adventure, biography or mystery? How did the author get his idea for the story? Discuss the style of writing used by the author. See Reading, Week 29. Have your child imitate Pinkwater's writing style to write an original story. Have your child place familiar characters in an outrageous situation.
Thursday	Let your child continue to work independently on his/her writing project.	Have your child study this week's spelling words.	Discuss the style of illustrations in <i>The Muffin Fiend. Why do you think the author and publisher chose this style of drawings?</i> Have your child continue to work on his/her story. Encourage him/her to add illustrations. Then, have your child revise and edit the story with the help of another.
Friday	Have your child do a final edit and revision of his/her writing project.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Daniel Pinkwater often writes about outrageous characters or situations. Have your child read other books by the author. (Look in the card catalog for other titles.)

Math	Science	Social Studies
Review decimal concepts taught so far, including how to read decimal numbers. Have your child complete More Puzzling Problems (p. 297).	Have your child read Why Doesn't the Earth Fall Up? by Vicki Cobb. As your child reads, he/she will find the answers to the question in the title, as well as to the "not-so-dumb" questions listed in Science, Week 29, number 1.	Political and Social Reform Discuss the meaning of reform. What are some of the issues in the past that have caused people to seek political or social reform? What are some issues today in need of reform? See Social Studies, Week 29, numbers 1 and 2.
Using models, demonstrate that adding zeros to the right of a decimal does not change the size of the decimal fraction. See Math, Week 29, number 1. Have your child write equivalent fractions for decimals. See Math, Week 29, number 2.	Have your child read about and define friction. Like gravity, friction acts on objects in motion and causes a change in motion. Explore friction with the simple activities and questions found in Science, Week 29, numbers 2 and 3. Have your child create a poster that illustrates and explains the concept of friction.	Have your child do some research on American reformers and their causes. <i>See</i> Social Studies, Week 29, number 3.
Teach your child to compare decimal fractions using the > and < signs. See Math, Week 29, numbers 3 and 4. Have your child compare pairs of decimals. Examples: 0.29 1.29 21.23 21.13 3.54 3.541 Then, have your child name the greatest or least number from groups of three decimals. Have your child complete Missing Train (p. 298).	Help your child conduct an experiment on friction. <i>See</i> Science, Week 29, number 4. You will need a copy of Exploring Friction (p. 299).	Discuss reform as it relates to the Amendments to the Constitution. Which Amendments were the result of a reform movement? Who were the leaders of these movements? Have your child copy one of the Amendments to the Constitution and read it carefully. Then, have your child explain, in his/her own words, the significance of that Amendment.
Teach your child to round decimals to a given place. Rounding with decimals is like rounding with whole numbers. If the number is 5 or more, round up. If the number is 4 or less, round down. Example: Round 4.78 to the nearest tenth. Since 78 is nearly 80, round up to 8 tenths = 4.80 See Math, Week 29, number 5. Write several decimals on the chalkboard. Have your child round each to a given place.	Introduce the concept of speed. Speed is measured by comparing the distance traveled to the time it takes to go that distance. Help your child discover how fast he/she walks. Measure accurately a mile course. Have your child walk the mile and mark the time with a stopwatch. When finished, have your child determine the number of minutes it took to walk the mile. That is your child's speed. Based on that speed, how long would it take your child to walk 3 miles?	Discuss the work of Martin Luther King, Jr. See Social Studies, Week 29, number 4. Have your child create a time line of the major events and accomplishments in the life and work of Martin Luther King, Jr.
It is more likely that your child will need to round a decimal to the nearest whole number than to the hundredths place. The number in the tenths place determines whether to round the number up or down. Examples: 45.60 is rounded to 46. 29.29 is rounded to 29. 5.7893 is rounded to 6. 100.00001 is rounded to 100.	Have your child research and read about the fastest Olympic runner, car, animal, etc. He/she may want to look at the <i>Guinness Book of World Records</i> to find more interesting speed facts. Have your child compile this information into a chart of "fast facts." Have him/her include two or three illustrations or pictures (from magazines) on the chart as well.	Arrange for your child to perform some community service.





READING SKILLS (Types of Writing)

Review these different types of writing: expository, descriptive and narrative. *Expository* writing explains or presents information. *Descriptive* writing uses words—especially adjectives—to create vivid images. *Narrative* writing tells a story or recounts an experience. A narrative may be told in the first person or in the third person.

MATH (Decimals)

- ▶ 1. The decimals 0.3, 0.30 and 0.300 each represent 3 tenths.
 - Give your child a copy of **Base-Ten Squares** (p. 290). Have him/her shade 0.3. In a separate box, have your child shade 0.30. Compare the two models and discuss. Ask your child to predict what 0.300 would look like. (same) Relate this to fractions: $\frac{3}{10}$ represents the same fraction as $\frac{30}{10}$. One fraction is just the simplified (or reduced) version of the other.
- 2. Have your child write an equivalent fraction for each of the given decimal fractions.

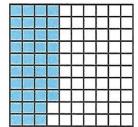
Example: $0.45 = \frac{45}{100}$ or $\frac{450}{1000}$ or $\frac{9}{20}$

0.5	0.9	0.34	0.03	0.125
0.7	0.1	0.57	0.22	0.012

- 3. To compare decimal fractions, look at one digit at a time.
 - a. Start with the whole number. The decimal with the larger whole number is the greater number. **Example:** 3.87 > 1.87 If the whole numbers are the same, move right to the tenths place.
 - b. Compare the tenths. The decimal with the larger number in the tenths place is the greater number. Example: 5.6 > 5.59 (Check your answer using the base-ten squares.) If the tenths are equal, move right to the hundredths place.
 - c. Compare the hundredths. The decimal with the larger number in the hundredths place is the greater number. **Example:** 6.37 > 6.368 If the hundredths are equal, move right to the thousandths place.
 - d. Compare the thousandths. The decimal with the larger number in the thousandths place is the greater number. **Example:** 4.235 > 4.231
- 4. If your child finds this method confusing, try an alternate method. Because 5.6 > 5.59 can look strange to your child, change the first decimal to an equivalent decimal, 5.60. When the decimals have the same number of digits (5.60 > 5.59), your child can see more easily which number is greater. Clearly, 60 hundredths is greater than 59 hundredths.
- 5. Use a base-ten square to demonstrate rounding with decimals. Sketch the given decimal fraction. Have your child study the drawing to decide whether the decimal should be rounded up or down to the given place.

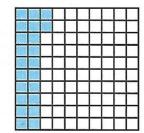
Examples:

Round 0.38 to the nearest tenth



Closer to 0.4

Round 0.22 to the nearest tenth



Closer to 0.2

SCIENCE (Force, Motion and Work)

Nhy does a rolling ball stop rolling? Why can't you stand an egg on its end? Why doesn't the moon fall to Earth? Which falls faster, a bowling ball or a marble? How do we know the Earth is moving when it looks as if the sky is movina?

- 2. Introduce the concept of friction. The force of friction causes an object to slow down or stop. Friction can also produce heat. Explore the following examples and ask your child to think of other instances of friction.
 - a. Strike a match on a smooth surface, then on a rough surface. Discuss the different reactions.
 - b. Have your child examine the soles of different shoes and decide which pair would provide the best traction on a slippery sidewalk.
 - Collect several advertisements for car and truck tires. Have your child look for statements about the tires that are best for snow or wet roads.
 - d. Have your child describe the method of stopping on a bicycle, skateboard or skis.
- 3. Discuss the answers to the following questions:

Could you walk easily without friction?

How is the heat from friction in an automobile engine controlled?

Look at stones found in a river or on a lakeshore. What caused the rocks to become smooth and rounded?

4. Obtain a spring balance that is used to measure force. Have your child explore the amount of force necessary to pull the same object across different surfaces. Discuss why this is a significant experiment in the study of friction. Before the experiment, have your child predict which surface will create the most friction for the object. After completing the experiment described on **Exploring Friction** (p. 299), ask your child to ponder the following questions:

What else could be done to make the movement of an object across a surface easier? Why is the ice on an ice rink scraped and swept after a lot of use? Have you ever slid down a water slide or a metal slide? Which slide goes more easily? Why is sand spread on icy bridges and roads in the winter? Why are ball bearings used in many machine parts?

SOCIAL STUDIES (Political and Social Reform)

- The American Revolution was the first American act of political and social reform. The colonists were very unhappy with the influence of Britain. Who were some of the important reformers of the American Revolution? Who were some of the important reformers of the Civil War?
- Discuss the methods of social and political reform. What methods are most effective in bringing about change? What are some non-violent methods of protest? What are some violent methods?
- 3. Have your child choose two leaders of social or political reform to research. Using a Venn diagram or other graphic organizer, have your child compare the two leaders. Repeat this exercise with two other leaders.

Jane Addams
Susan B. Anthony
Amelia Bloomer
Carrie Catt
Cesar Chavez
Frederick Douglass
W. F. B. Du Bois

Samuel Gompers Jesse Jackson Mary Harris Jones Martin Luther King, Jr. John L. Lewis Horace Mann Muckrakers (a group)
Ralph Nader
Carry Nation
Rosa Parks
Eleanor Roosevelt
Elizabeth Cady Stanton

W. E. B. Du Bois Betty Friedan Thurgood Marshall Lucretia Mott

Gloria Steinem Harriet Tubman

4. Martin Luther King, Jr., is probably one of the best-known American reformers. He led the fight for civil rights in the 1950s and 1960s. His actions were probably the most significant factor in the passage of the Civil Rights Act. Read about the Civil Rights Act of 1964. Discuss the difference between an act and an amendment. Have your child identify amendments to the Constitution that address civil rights.

Searching for Suffixes

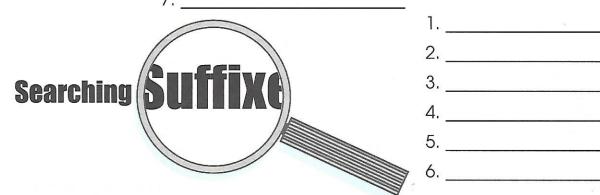
This group of spelling words has the same suffixes used in Week 28, but these suffixes were added without any changes to the root words.

attached attended avoiding builder catcher concerned drawing enjoying escorted established poster prisoner repeated scaldina scooter seller spelling younger

Exception: When a word ends in a single consonant preceded by a short vowel, the consonant is usually doubled before adding a suffix that begins with a vowel.

Write each spelling word in the appropriate category.

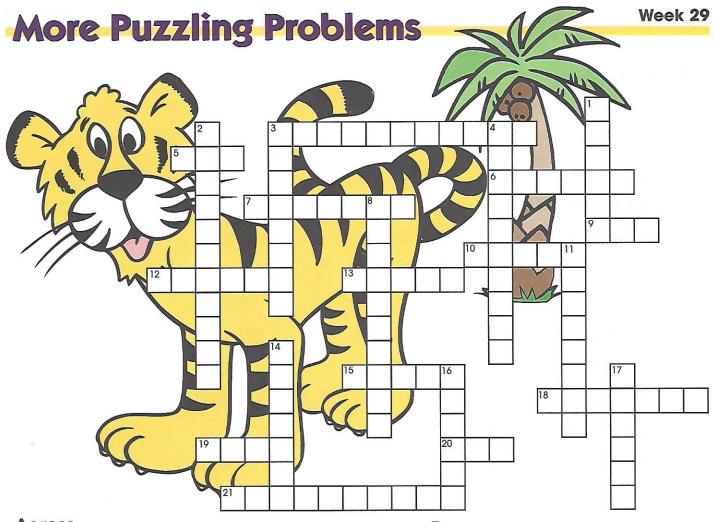
e dien speim ig were in me dippropriete dend gery.						
Root + er	Root + ing					
1.	T					
2	2					
3	3					
4						
5	5					
6						
7	Root + ed					



Circle the root word in each word.

- 1. clapping
- equipping
- 5. slapped
- 7. quitter

- 2. canned
- 4. trimmer
- 6. beginning
- 8. dragging



Across

3.	7.333 = seven and three hundred
	thirty-three

- 5. 67.02 = sixty-seven and hundredths
- 6. 490.1 = four hundred and one tenth
- 7. 0.512 = five _____ twelve thousandths9. 8.06 = eight and _____ hundredths
- $10. \ 0.007 =$ thousandths
- 12. 11.3 = ____ and three tenths
- 13. 300.12 = hundred and twelve hundredths
- 15. 62.08 = sixty-two and _____ hundredths
- 18. $70.009 = \underline{}$ and nine thousandths
- 19. 9.3 = ____ and three tenths
- 20. 10.51 = and fifty-one hundredths
- 21. 1,000.02 = one thousand and two ___

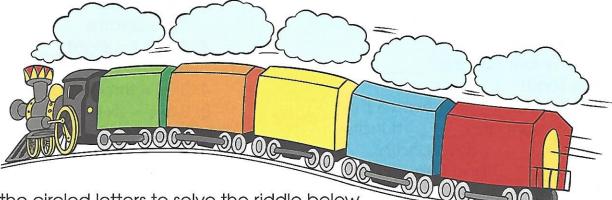
Down

- 1. 6.5 = six and five _____
- 2. 0.428 = four hundred thousandths
- 3. 8,100.1 = eight ____ one hundred and one tenth
- 4. 3.02 = three and two _____
- 8. 0.685 = six hundred thousandths
- 11, 50, 19 = fifty and _____ hundredths
- $14. \ 0.015 =$ thousandths
- 16. 430.7 = four hundred thirty and seven
- 17. 73.4 = seventy-three and four ____

Missing Train

Circl	tha		
CIICI	1110		a

1.	smallest number	0.31	(A)	0.05	(F)	0.20	(R)
2.	greatest number	0.001	(R)	0.137	(O)	0.100	(A)
3.	greatest number	9.910	(L)	9.010	(C)	9.909	(T)
4.	smallest number	0.110	(A)	0.09	(L)	0.3	(R)
5.	greatest number	0.090	(S)	0.10	(P)	0.12	(O)
6.	smallest number	0.131	(H)	0.2	(T)	0.08	(W)
7.	greatest number	1.310	(E)	1.03	(H)	1.33	(T)
8.	smallest number	2.001	(H)	2.9	(F)	2.010	(A)
9.	greatest number	0.3	(E)	0.03	(A)	0.003	(R)
10.	greatest number	1.01	(U)	1.001	(R)	1.1	(T)
11.	greatest number	3.04	(R)	3.009	(U)	3.039	(N)
12.	smallest number	6.01	(A)	6.11	(C)	6.030	(O)
13.	greatest number	0.001	(T)	0.100	(C)	0.090	(N)
14.	smallest number	1.027	(K)	1.270	(R)	1.207	(P)
15.	smallest number	9.909	(N)	9.09	(G)	9.009	(S)
	~~-	~~~					



Fill in the circled letters to solve the riddle below.

How do you search for a missing train?

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Exploring Friction

Friction is the force that keeps some things from moving or slows them down when they do move. Friction is present when surfaces touch one another. The amount of friction depends on the kinds of materials that are touching, how smooth their surfaces are and how much force presses the two surfaces together.



You will need: string, a screw eye, a block of wood and a spring balance

Experiment:

You will measure the amount of force needed to overcome the friction created by the block of wood on different surfaces. You will be measuring in Newtons (N). The greater the amount of friction created by a surface, the greater the force needed to overcome it. Screw the screw eye into the block. Attach one end of the string to the screw eye on the block of wood and the other to the hook on the spring balance. Put the block on its side on a smooth tabletop and pull evenly on your spring balance until the block moves. Keep pulling so that the block of wood moves at the same speed across the table for each surface. Your parent can take a reading from the spring balance.

Write this quantity in the chart. Repeat the procedure for each surface listed. Hint: When using marbles, place books around the area to keep them from scattering.

Surface	Amount of Force Needed to Overcome Friction (N)	
Aluminum foil		
Marbles		
Sandpaper		
Smooth tabletop	The state of the s	

Does slidina	or rolling create	more friction?	

	Language Skills	Spelling	Reading
Monday	Help your child choose a writing topic for this week's writing assignment. Have your child follow the steps in the writing process as he/she writes independently this week. For more information on the writing process, see page 6. Have your child make a plan for writing, then begin work on the rough draft today.	Pretest your child on these spelling words: apply country lily boundary dairy marry canary enemy memory century factory pity city grocery reply company hobby worry Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Introduce <i>The Trumpet of the Swan</i> by E. B. White. Have your child read chapters 1 and 2. Have your child start a daybook of his/her own. After reading each day, have your child write about what he/she read and formulate a question about the story.
Tuesday	Let your child continue to work independently on his/her writing project. Review writing and grammar skills as the need arises.	Review this week's spelling words. Have your child complete Simplifying Suffixes (p. 304).	Ask your child to consider the character of Sam. Work with your child to complete a character web for Sam Beaver. See Reading, Week 30, number 1. Have your child read chapters 3 and 4 of The Trumpet of the Swan. Then, have your child write in his/her daybook.
Wednesday	Let your child continue to work independently on his/her writing project. Have your child proofread what he/she has written so far, using proofreading symbols. See Reading, Week 30, number 2.	Have your child use each of this week's spelling words correctly in a sentence.	Proofreading: Have your child read chapters 5 and 6 of <i>The Trumpet of the Swan</i> . Then, have your child write in his/her daybook. Teach your child formal proofreading symbols. <i>See</i> Reading, Week 30, number 2.
Thursday	Let your child continue to work independently on his/her writing project.	Have your child study this week's spelling words.	Have your child read chapters 7 and 8 of The Trumpet of the Swan. Then, have your child write in his/her daybook. Give your child a copy of the proofreading symbol chart, as well as a copy of Tim Burr, Tall Tale Hero (p. 305). Have your child read the story and mark corrections using the appropriate symbols from the chart. Help your child get started by reviewing the necessary writing skills noted at the top of the page.
(Friday	Have your child do a final edit and revision of his/her writing project.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child read chapters 9 and 1'0 of The Trumpet of the Swan. Then, have your child write in his/her daybook. Ask him/her to answer the following question: Is Louis's problem solved?

week			
Math	Science	Social Studies	
Teach your child how to convert decimals to fractions and fractions to decimals. See Math, Week 30, numbers 1 and 2. Have your child complete Decimal Delight (p. 306).	Laws of Motion Sir Isaac Newton formulated the laws of motion that inform modern scientific thought. Introduce and explain Newton's first law of motion: An object at rest tends to remain at rest, and an object in motion tends to remain in motion unless acted on by a force. See Science, Week 30, number 1. Have your child write about a time he/she experienced Newton's first law of motion first-hand.	Introduce your child to Bartlett's Familiar Quotations. Turn to quotations by Martin Luther King, Jr. Have your child read some of the quotations aloud. Discuss the meaning of each quotation and the context in which King was speaking. Have your child choose one of the quotations from Martin Luther King, Jr. to analyze. Have your child describe in writing King's meaning and its significance in today's world.	
Review concepts related to decimals discussed so far. Give your child various problems to check his/her understanding of rounding, comparing, writing and reading decimals, as well as converting decimals to fractions.	Introduce and explain Newton's second law of motion: The acceleration of an object depends upon the size and direction of the force acting on it and the mass of the object. See Science, Week 30, numbers 2 and 3. Have your child define acceleration in his/her Science Log.	Women Leaders: Discuss the women's suffrage movement. See Social Studies, Week 30, number 1. Have your child write a paragraph explaining why women were not allowed to vote in colonial times.	
Quiz your child on his/her understanding of decimals. Have your child complete Decimals (p. 307). Reteach any concepts if necessary.	Help your child conduct the experiment described on Come-Back Can (p. 309).	Brainstorm a list of famous American women with your child. See Social Studies, Week 30, number 2. Provide appropriate resource materials so that your child can look up each woman's name and read about her. Have your child group the women by the type of influence they (have) had on society (musical, social, political, literary, etc.).	
Teach your child how to add and subtract decimals. First, line up the decimals. This is very important! Then, starting with the decimal place furthest to the right, add or subtract. Add, subtract and regroup just as you would any other addition or subtraction problem. The decimal point carries down into the answer. Examples: 23.678	Introduce and explain Newton's third law of motion: For every action, there is an equal and opposite reaction. See Science, Week 30, number 4. Help your child conduct an experiment with a balloon. See Science, Week 30, number 5. Have your child explain the third law of motion through a diagram of the balloon experiment.	Have your child write about the life and work of one famous American woman. Encourage your child to explain his/her reasons for choosing that particular woman.	
Let your child practice adding and subtracting with decimal fractions. Have your child complete Blast Off! (p. 308).	Introduce and demonstrate the concept of a pendulum. Help your child design, then carry out, another experiment to investigate the behavior of a pendulum. See Science, Week 30, numbers 6 and 7.	Arrange for your child to perform some community service.	

TEACHING SUGGESTIONS AND ACTIVITIES



READING (Proofreading)

- 1. Help your child make a character web for Sam Beaver. Have your child write Sam's name in the center of a sheet of paper. Then, have your child draw a circle around Sam's name and draw spokes radiating from the circle. At the end of each spoke, have your child write words that describe Sam. From each of those words, your child may write more details about Sam.
- Explain that even professional writers often have other people proofread their writing to check for mistakes in arammar, capitalization, spelling and punctuation. Special types of proofreading marks are used to point out mistakes. Discuss the meaning of each symbol shown and when to use it.

<u>b</u>	Use a capital letter		Indent
<u></u>	Insert a period	9	Start a new paragraph
^	Insert a comma	\"\\\"\	Insert quotation marks
\wedge	Insert	\'	Insert an apostrophe
B	Use a lower-case letter	l	Delete

MATH (Decimals and Fractions)

1. To convert a decimal to a fraction, remove the decimal point and write the decimal over a power of 10. If the decimal goes to the tenths place, place it over 10; if the decimal goes to the thousandths place, place it over 1000, Reduce the fraction to lowest terms.

Examples: $0.45 = \frac{45}{100} = \frac{9}{20}$

 $0.007 = \frac{7}{1000}$

To convert a fraction to a decimal, divide the numerator by the denominator. Teach your child where to place the decimal. Have your child use a calculator to convert fractions to decimals after practice.

Examples: $\frac{45}{100} = 45 \div 100 = 0.45$

 $\frac{3}{8} = 3 \div 8 = .375$

SCIENCE (Laws of Motion)

- Have your child look around the classroom and name objects at rest (books, an aquarium, a chair, a table). Those objects will remain at rest until some force acts upon them. Have your child name some forces that could move these objects. Ask your child to recall a time riding in a car when the brakes were applied auickly. Have your child describe what happened and explain how that experience was related to Newton's first law of motion.
- 2. Have your child describe the motion of a car on a roller coaster. Discuss the following:

Is the car moving when you board? (No, the engine must push it.)

How fast does the car move at first? (It must accelerate to start moving.)

Does the car move fast when it first climbs an incline? (The force of gravity pulls in the opposite direction and the car begins to decelerate.)

What happens to the car when it reaches the top of the first incline? (Gravity pulls in the same direction the car is moving so the car accelerates.)

What force finally brings the car to a stop? (Applying brakes creates friction, causing the car to stop.)

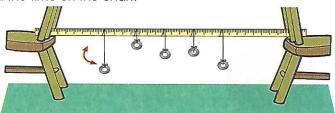
- Have your child name and describe other examples of Newton's second law of motion, in which objects
 accelerate or decelerate (skiing, skating, sledding, riding a bicycle, running).
- Whenever you apply force to an object, the object applies the same amount of force back. When you lift a weight, you are pulling on the weight. The weight is also pulling on you. You can tell it is pulling on you because it feels heavy. When a rifle expels a bullet, the recoil of the gun is the opposite force.
- > 5. Have your child conduct an experiment outside the classroom to investigate Newton's third law of motion. You will need only a balloon.
 - a. Inflate the ballon with 5 deep breaths of air.
 - b. Pinch the neck of the balloon with your fingers. Hold the balloon over your head and release,
 - c. Observe the motion and path of the balloon as it deflates.
 - d. Repeat steps a-c, using 10 deep breaths of air to inflate the balloon.
 - e. Repeat steps a-c, using 15 deep breaths of air to inflate the balloon.

Have your child describe the differences in the motion and path of the balloon in each trial. Can he/she describe the force and the opposite force demonstrated in the experiment?

- 6. Tie a metal washer to a long string. Have your child observe and describe the motion that results when you grasp the string 10 cm from the washer and swing the washer back and forth. Then, have your child observe and describe the differences in the swinging pendulum as you increase the length of the string to 20 cm and 30 cm. At what length did the pendulum swing the fastest? At what length did the pendulum swing the slowest? What affected the swing of the pendulum?
- You will need: 5 lengths of string, 5 metal washers, a stopwatch or clock with a second hand and a meterstick
 What to do:

 Pendulum
 Number of swings
 Time (seconds)
 - a. Tie a metal washer to each length of string.
 - b. Tie the 5 strings to different positions on the meterstick.
 - c. Suspend the meterstick between the backs of two chairs.
 - d. Adjust the strings so that no washer touches the floor.
 - e. Hold the first washer to one side and release. Note the time or start the stopwatch. Count the number of swings it makes before coming to rest. Record the number of swings on a chart.
 - f. Stop the stopwatch or note the time. Record the time on the chart.

Repeat steps a–f with the remaining washers. Have your child record each swing count and time on the chart. Have your child write a paragraph analyzing his/her observations. How did the length of the string affect the number of swings and the time?



3

SOCIAL STUDIES (Women Leaders)

- The women's suffrage movement began in 1848 with Elizabeth Cady Stanton and Lucretia Mott. They held a
 convention that adopted a *Declaration of Sentiments*. This declaration called for women to have equal rights
 in education, ownership of property, voting and other areas. Women were not granted the full right to vote in
 the United States until 1920.
- Here is a brief list of famous American women;

Madeleine Albright Marian Anderson Clara Barton Mary McLeod Bethune Elizabeth Blackwell Mildred Ella Didrikson Amelia Earhart Helen Hayes
Julia Ward Howe
Billie Jean King
Ann Landers
Belva Lockwood
Juliette Gordon Low
Barbara McClintock

Martina Navratilova Sandra Day O'Connor Frances Perkins Sally Ride Cokie Roberts Eleanor Roosevelt Betsy Ross

Simplifying Suffixes

When adding a suffix beginning with a vowel to a word that ends in a consonant + y, change the y to i before adding the suffix. An exception to this rule occurs when adding the suffix ing.

apply boundary canary century city company country dairy enemy factory grocery hobby lily marry memory pity reply worry



Write the correct spelling word with an appropriate suffix on each line.

- 1. joined in matrimony _____
- 2. USA and Mexico are examples of these
- 3. felt sorry for _____
- 4. answering _____
- 5. food purchases _____
- 6. to be concerned
- 7. one's adversaries _____
- 8. places of manufacturing _____
- 9. petitioned _____
- 10. more than one period of 100 years
- **3**11. Easter flowers ______
 - 12. fun things done in free time
 - 13. milk processors _____
 - 14. little yellow birds
 - 15. urban areas _____
 - 16. recollections _____
 - 17. borders
 - 18. people work for these _____



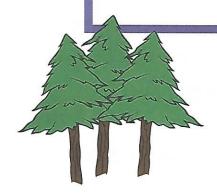
Tim Burr, Tall Tale Hero

Read the following tall tale about Tim Burr. Use proofreading marks to edit the paragraphs and correct the sentence fragments. **Write** the quotations correctly. Use proper capitalization and the appropriate homophones.

far up north, in the rugged, wooded regions of canada, their lived the famous lumberjack tim burr. his trusty sidekick, saw mills, lived there to. one day, saw and tim loaded up their axes and set off four the woods. To fell more trees. For the local mill, Log Lagoon, they took along they're pack mules, beauty and beast, they chopped so fast that the trees began falling onto each other. Creating quite a logjam, its knot my fault yelled saw, i can't see where you are cutting.

the problem grew worse, beauty, tim's beloved mule, almost got his tale sliced off. Buy a falling tree trunk, that does it yelled tim angrily when you cut down a tree, call for me. So i no where you are.

saw obeyed tim's wishes. From that day on. as each tree was felled, saw cried "TIM BURR!"



Decimal Delight

Kooky Claude Clod, the cafeteria cook, has some strange ideas about cooking. He does not understand fractions—only decimals. Help Claude convert these measurements to decimals so he can get cooking!

> Kooky Soup

Mix together and sauté:

²/₂₀ cup minced cat whiskers

* cup crushed snails

3 cup toothpaste

³/₄ tablespoon vinegar

the cup pig slop

Simmer $93\frac{1}{2}$ days.

Gradually fold in:

teaspoon soot

cup motor oil tablespoon lemon juice

20 cup chopped poison ivy

6 dr rotten eggs

Brew for $1,500^{\frac{24}{25}}$ years. Enjoy!



Mix together and sauté:

_ cup minced cat whiskers

cup crushed snails

____ cup toothpaste

tablespoon vinegar

____ cup pig slop

Simmer days.

Gradually fold in:

____ teaspoon soot

____ cup motor oil

_____ tablespoon lemon juice

____ cup chopped poison ivy

____ rotten eggs

Brew for _____ years. Enjoy!



- 1. Write out 36.124 in words.
- 2. Write two hundred thirty-seven and twenty-six hundredths in numerals.
- 3. Use > or < to indicate which decimal fraction is greater.

3.147 3.205 3.06 3.059

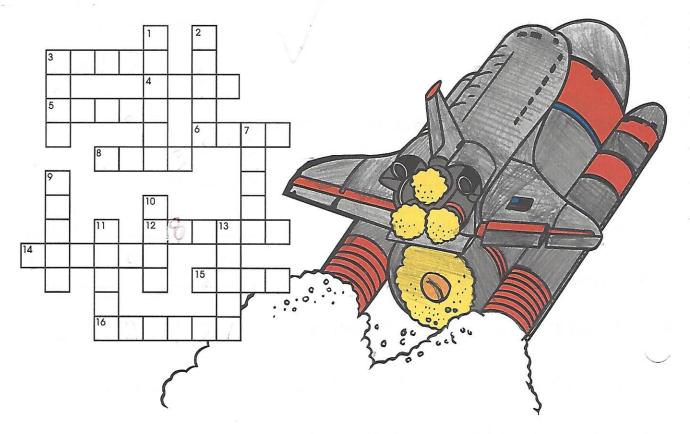
- 4. Round 87.658 to the nearest whole number.
- 5. Round 87.658 to the nearest tenth.
- 6. Round 87.658 to the nearest hundredth.
- 7. Write 0.5 as a fraction in lowest terms.
- 8. Write 0.69 as a fraction in lowest terms.
- 9. Write 7.85 as a fraction in lowest terms.

10. Draw a model of 0.3.



Blast Off!

Hint: Decimal points take up their own square. Do not use a zero before the decimal.



Across

Down

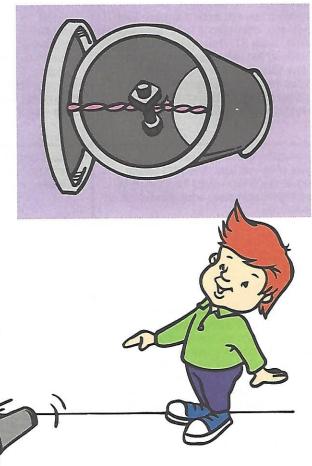
Come-Back Can

You will need: a large can with a plastic lid, a compass, 2 long rubber bands, a

paper clip, a piece of wire and a bolt

Making the Come-Back Can

With a compass point, punch a hole in the center of the can bottom. Punch another hole in the center of the plastic lid. Feed two long rubber bands through the hole in the bottom of the can. Use a paper clip on the outside of the can to keep the loops of the rubber bands from pulling out. Wrap a piece of wire around a bolt and tie the wire to the center of one of the rubber bands inside the can. Thread the other ends of the rubber bands through the hole in the lid. Use another paper clip to keep these outside loops from pulling out. Snap the lid on the can.



Using the Come-Back Can

Place the can on the floor and roll it away from you. Does it come back? ______
Roll it harder. Does it come all the way back? _____
Roll the can up a ramp or sloping sidewalk.
What happens? _____

Making Hypotheses

Why do you think the can comes back? ______

Can you make the can roll farther, faster or longer? ______

What can you change about the can's design? ______

Try your new design. How does it work? _____

	Language Skills	Spelling	Reading
Monday (Research Report Guide your child through the process of writing a research report this week. First, help your child select a topic. See Language Skills, Week 31. Then, take your child to the library to find related research materials. Have your child write a topic sentence to focus the report. The topic sentence is subject to change as your child does more research, but it makes a good place to start.	Pretest your child on these spelling words: approach disagreement groan beaten easel increase blueprint eastern leather boasted feelings needless bread flue peek breath glued reason Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Abbreviations Have your child read chapters 11 and 12 of <i>The Trumpet of the Swan</i> . Have your child write in his/her daybook. Teach your child about abbreviations this week. <i>See</i> Reading, Week 31, number 1.
Tuesday	Brainstorm questions about the topic with your child. Ask your child what he/she would like to learn about the topic. Have your child write down each question on an index card.	Review this week's spelling words. Have your child complete Vital Vowel Digraphs (p. 314).	Send your child searching through the reading book to find answers to these questions: Who? What? When? Where? Why? How? Ask your child to find a sentence that answers each question. Have your child read chapters 13 and 14 of The Trumpet of the Swan. Ask your child to predict what a night in a hotel will be like for Louis. Have your child write about it in his/her daybook. Continue your discussion of abbreviations. See Reading, Week 31, number 2.
Wednesday	Have your child conduct research by looking through the library resources for answers to his/her questions. As your child finds answers, have him/her write them down on the index cards. Remind your child to note which resource contained the answer. If two resources offer conflicting answers, have your child write down both, then look for a third source to confirm one or the other answer.	Have your child use each of this week's spelling words correctly in a sentence.	Have your child read chapters 15 and 16 of <i>The Trumpet of the Swan</i> . Have your child write in his/her daybook. Ask your child to name some abbreviations that are commonly used. Then, say a word, such as <i>road</i> . Have your child write the abbreviation on the chalkboard. Repeat with other words like <i>street</i> , <i>negative</i> , <i>mister</i> , <i>doctor</i> , <i>junior</i> , <i>apartment</i> , <i>adverb</i> , <i>corporation</i> , <i>limited</i> , <i>example</i> , <i>ounce</i> , <i>foot</i> , <i>inch</i> , <i>kilometer</i> , <i>teaspoon</i> , <i>quart</i> .
Thursday	Have your child organize the index cards in a meaningful way. Then, ask your child to think about how he/she will present his/her findings in an interesting report. Have your child begin to make an outline.	Have your child study this week's spelling words.	Have your child read chapters 17 and 18 of <i>The Trumpet of the Swan</i> . Have your child write in his/her daybook about the deal the swans make with the zoo. Point to a state on a map. Have your child write its traditional abbreviation and its post office abbreviation. Example: Colorado / Colo. / CO Repeat with other states. Can your child list all 50 states' post office abbreviations?
Friday	Following the outline, have your child write a first draft of the research report. Have your child follow the writing process over the next few days, revising, editing and rewriting the report. For more information on the writing process, see page 6.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child read chapters 17–21 of The Trumpet of the Swan. Have your child draw a story map in his/her daybook. The story map should be a detailed list of events from the story. Test your child's knowledge of abbreviations. Have your child write the names of the months and their abbreviations. Then, have him/her write the days of the week and their abbreviations.

		Week 31
Math	Science	Social Studies
Teach your child how to round decimals to estimate answers to subtraction and addition problems. See Math, Week 31, number 1. Write 8–10 addition problems with decimals on the chalkboard. Have your child round each addend to the nearest whole number, then add to estimate the sum of the original problem. Have your child go back and solve the original problems. How accurate were your child's estimates?	Work Introduce and explain the term work. See Science, Week 31, number 1. Your child may think of work simply as a disagreeable task. Make sure your child understands the scientific meaning of work. Have your child list common examples of doing work, such as opening a door, hitting a ball, walking, running, raising a window, flying a kite or pulling a wagon.	African-American Leaders Brainstorm a list of famous African Americans with your child. See Social Studies, Week 31, number 1. Provide appropriate resource materials so that your child can look up each person's name. Have your child group these Americans by the type of influence they (have) had on society (musical, social, political, literary, religious).
The subtraction sentence $6-0.45$ may seem confusing at first. Teach your child to add a decimal point and zeros after the whole number before subtracting a decimal number. Example: $6-0.45$ g/ θ / θ 6.00 6.00 -0.45 -0.45 5.55 Have your child complete Historical Harry (p. 315).	Have your child create a poster showing different examples of work by animals and people. <i>See</i> Science, Week 31, number 2.	Have your child select the famous black musicians from the list generated yesterday. Check out music by these famous Americans from the library. Have your child listen to the music of the different artists. Have your child compare the different types of music. Can he/she hear the influence of earlier musicians on later musicians?
Demonstrate how to multiply two decimal fractions and accurately place the decimal point in the solution. Give your child guided practice with multiplying a 3-digit number by another 3-digit number. See Math, Week 31, number 2. Have your child complete A Multiple Design (p. 316).	Sports may be fun, but they are also a lot of work. Have your child choose one sport and analyze the different motions involved. Remember that work happens whenever an object is moved. Have your child design a chart or diagram that breaks down the sport into its many distinct motions. See Science, Week 31, number 3.	Langston Hughes's poetry is highly visual. Read several of his poems aloud to your child. Ask your child to select one of Hughes's poems to illustrate. Have your child draw a picture inspired by the poem on a 12" x 18" piece of paper. Have your child copy the poem on lined paper and display the drawing with the poem. Ask your child to explain his/her artistic interpretation of the poem.
Show your child how easy it is to multiply a decimal by 10 or 100. To multiply any number by 10, simply move the decimal point one place to the right. Examples: 6.3 x 10 = 63, 0.29 x 10 = 2.9 To multiply any number by 100, move the decimal point two places to the right. Examples: 6.3 x 100 = 630 0.29 x 100 = 29 Give your child several problems to practice this concept.	Work is measured in <i>joules</i> . Force is measured in <i>newtons</i> . A newton is the unit of force needed to move one kilogram one meter per second. Have your child push a one-kilogram weight one meter across the floor in one second. your child has moved the weight one newton-meter, or one joule. <i>See</i> Science, Week 31, number 4. The <i>newton</i> and <i>joule</i> were both named after famous scientists. Have your child research these scientists and read about their work.	Obtain U.S. postage stamps that are part of the Black Heritage Series. Each February, a new face is added to the series. Discuss the honor of appearing on a stamp. See Social Studies, Week 31, numbers 2 and 3. Have your child design a new stamp to honor and commemorate a famous African American. Have your child write a paragraph telling why he/she chose to honor that person.
Demonstrate how to divide a decimal fraction by a whole number. See Math, Week 31, number 3. Have your child complete The Perfect Sweet-Treat Solution (p. 317).	Introduce and explain the term <i>machine</i> . See Science, Week 31, number 5. Have your child name several machines in your home and classroom.	Arrange for your child to perform some community service.

TEACHING SUGGESTIONS AND ACTIVITIES



LANGUAGE SKILLS (Research Report)

Let your child choose a topic for research. Offer your support and suggestions, but let your child decide. If your child is allowed to choose the topic, he/she will have more invested in the research process. Discuss your child's interests. Ask him/her to recall an interesting book. Go to the nonfiction section of your children's library for a wealth of books on any topic. Have fun narrowing the search. Research skills must be taught, so guide your child along the way. It is also important that your child knows who the audience for his/her work will be from the start.

READING (Abbreviations)

- Explain that initials are a special kind of abbreviation in which letters represent names of people, businesses, athletic teams, schools, government agencies and publications. Ask your child to name some people, places or things that are often called by their initials rather than their full names. Have your child find examples of initials in books and in the newspaper.
- Print the initials and words below on separate index cards. Have your child match each set of initials with the words it represents.

NBA	National Basketball Association	YMCA	Young Men's Christian Association
ABC	American Broadcasting Companies	CNN	Cable News Network
VCR	videocassette recorder	FDA	Food and Drug Administration
FDR	Franklin Delano Roosevelt	GM	General Motors
GE	General Electric	NAACP	National Association for the
BA	Bachelor of Arts		Advancement of Colored People
CPA	Certified Public Accountant	RSVP	répondez s'il vous plaît
USA	United States of America	VFW	Veterans of Foreign Wars
SEC	Securities Exchange Commission	BBC	British Broadcasting Company
BLT	bacon, lettuce and tomato	CD	compact disc
FBI	Federal Bureau of Investigation	UN	United Nations
NAFTA	North American Free Trade Alliance	NFL	National Football League
PO	post office	FCC	Federal Communications Commission

MATH (Decimals)

 To estimate addition and subtraction of decimal fractions, first round to the nearest whole number. Then, add or subtract as usual.

Examples:	34.256	34	25.68	26
	+ 22.511	+ 23	<u>- 13.22</u>	- 13
		57		13

2. The process of multiplying decimals is the same as with multiplication of whole numbers, with the addition of one step. This additional step involves counting the number of decimal places in the problem and including the same number of decimal places in the solution. (The same number of digits follow the decimal point in the solution as follow the decimal points in the problem.)

To help your child understand the placement of the decimal point in the solution, think about how the equation is related to fractions.

Example:
$$0.1 \times 0.1 = \frac{1}{10} \times \frac{1}{10} = \frac{1}{100} = 0.01$$

(1 place + 1 place = 2 places)

3. Decimal division is basically identical to whole number division with a few modifications. One modification is that in decimal division, you always place a decimal point in the quotient **before** you begin division. The decimal point in the quotient is placed directly above the decimal point in the divisor. Divide as usual with the decimal in place. Show your child an example on the chalkboard. **Example:** 72.6 ÷ 3.

SCIENCE (Work)

- Ask your child to come up with an original definition of work. Discuss the many meanings of the term: "work of art," "musical work," one's profession, homework, waterworks, etc. Explain that the scientific definition of work is the result of a force which moves an object through a distance. Work happens when an object is moved. The mathematical formula for this is **Work = force x distance**.
- 2. Have your child create a poster depicting different examples of work done by animals or people. Provide a large sheet of poster board, glue, scissors and old magazines or catalogs. Have your child collect a variety of pictures, then categorize the pictures into themes or topics, such as animals at work on a farm, animals at work in a circus, sports activities, manual labor, working with tools or machines, working with a hobby, working on an art project, working in a laboratory, working in a medical field, working in the military and working on a television or movie set.
- 3. Have your child analyze the work involved in one of the following sports: football, basketball, baseball, volleyball, tennis, bowling, golf, racing, rowing, throwing a shot or javelin, high jumping, skydiving, hang gliding, ice skating, skateboarding, soccer, weightlifting or fishing. Have your child list the forces used and the objects moved through a distance in each sport.
- Work = force x distance. If an object is moved 5 meters using 4 newtons of force, the amount of work done is 20 joules.
- 5. A machine is a device that changes the amount of force required to do work. A wheel is a machine—it makes moving objects easier by decreasing the amount of force necessary to move them. Have your child imagine how the wheel was first invented by someone. Have your child look around the classroom and name some devices that would be classified as machines (pencil sharpener, scissors, paper punch, tape dispenser, aquarium pump, water faucet, blind pulls, curtain pulls, vacuum cleaner, computer, printer, paper shredder, etc.). Have your child list the work done by each machine and describe how the work might be done without the help of the machine. Explain the role of electrical energy in the creation and use of many new machines (electric drill vs. manual drill).

SOCIAL STUDIES (African-American Leaders)

▶ 1. Here is a brief list of famous African-Americans:

Henry Aaron Muhammad Ali Louis Armstrong Arthur Ashe James Baldwin Benjamin Banneker Mary McLeod Bethune Thomas Bradley

Ralph Bunche George W. Carver Shirley Chisholm Bill Cosby Benjamin O. Davis Martin Delany Ella Fitzgerald Alex Haley Langston Hughes Scott Joplin Michael Jordan Coretta Scott King Spike Lee Joe Louis James Meredith Jesse Owens Sidney Poitier
Colin Powell
Paul Robeson
Jackie Robinson
Booker T. Washington
Phillis Wheatley
Roy Wilkins
Oprah Winfrey

2. The Black Heritage Series of stamps is called commemorative stamps. Artists submit designs for the stamps. Their designs are carefully studied and a selection is made each year. Show your child a full page of commemorative stamps. Point out the printed information that is sometimes given on the margins or on the backs of the blocks of stamps. Ask at your local post office for the names of people represented in the Black Heritage Series. Have your child draw three stamps (like the sample to the right) and write three facts about the person in the margin.



3. Have your child find out about the Spingarn Medal—who has received it and why. Have your child look up any names of these medal winners that are unfamiliar and read about their lives and work.

Vital Vowel Digraphs

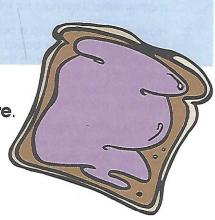
Vowel Digraph are two vowels together that make only one vowel sound. Generally, the vowel digraphs below carry the following sounds:

approach
beaten
blueprint
boasted
bread
breath
disagreement
easel
eastern
feelings
flue
glued
groan
increase
leather
needless
peek
reason

ee, ea = long e as in peep, flea
ue = oo as in true
oa, oe = long o as in moan

Sometimes the vowel digraph **ea** carries the **short e** sound as in **pleasure**.

Write each spelling word in the appropriate category. **Write** the number of syllables in each word in the parentheses.



groan	ee = e	ea = ē
increase leather	()	()
needless peek	()	()
reason	()	()
	()	()
		()

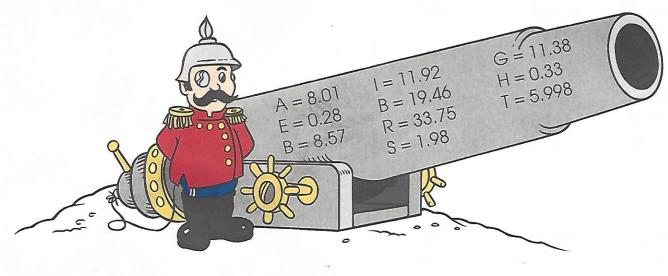
oa = o			Elephant ea Words		ue = 00	
	() _	()	()
	() _	()	()
	() _	()	()

Write the spelling word that is a compound.

Write the eight spelling words that contain either a prefix or a suffix.

Historical Harry

What were the large cannons that were used by Germany in World War I? **Solve** the following subtraction problems and find the answers in the cannon. **Write** the corresponding letter above the problem's number at the bottom of the page to spell out the answer to this historical trivia question.



1.9 - 0.43

- 2.12 0.08
- 3.15 3.62

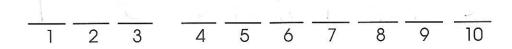
$$5.1 - 0.72$$

$$7.6 - 0.002$$

$$8.21 - 20.67$$

$$9.9 - 0.99$$

$$10.4 - 2.02$$



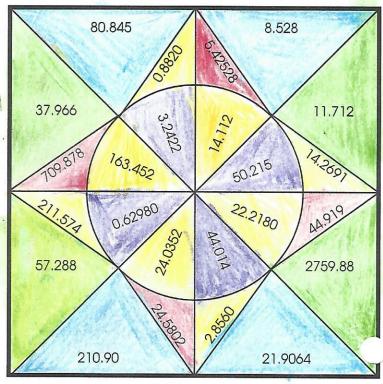
A Multiple Design

Solve the problems on a separate sheet of paper. Find the answers in the design and **color** correctly.

green		blue		red	
(0.463		28.5		6.51
<u>X</u>	82	X	7.4	X	6.9

ye	ellow	purp	le	pu	rple
	39.2	7.	54		0.670
<u>X</u>	0.36	<u>x 0.</u>	<u>43</u>	X	0.94
	1				

yellow		yellow		purple	
	64.9		0.592		7.46
<u>X</u>	3.26	<u>X</u>	40.6	X	5.9



green	blue	blue	green	purple 6.05 x 8.3
92.4	32.8	85.1	7.32	
x 0.62	<u>x 0.26</u>	<u>x 0.95</u>	<u>x 1.6</u>	
green	blue	yellow	red	red
3.27	5.56	80.5	5.77	95.8
<u>x 844</u>	<u>x 3.94</u>	<u>x 0.276</u>	<u>x 4.26</u>	<u>x 7.41</u>

yellow

yellow

yellow

red

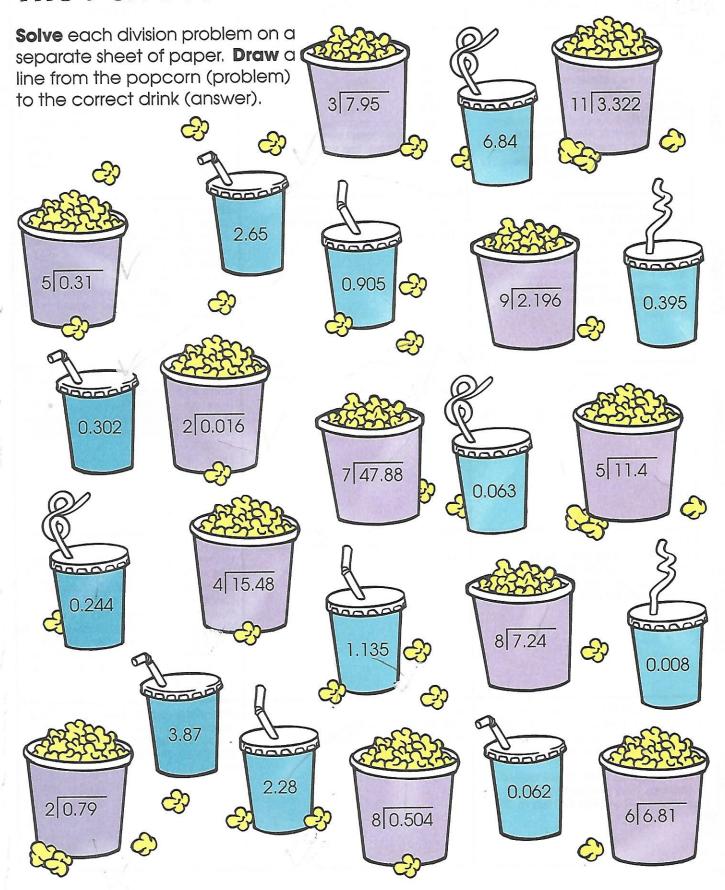
yellow

0.245

3.6

The Perfect Sweet-Treat Solution

Week 31



A		Week 32		
	Language Skills	Spelling	Reading	
Monday	Allow your child to continue working on the research report from last week. Once finished, have your child decide how to present the information. He/she could read the report to an audience, build a diorama, make a poster to accompany the report, perform a puppet show, create an illustrated book or even express the information through a poem or song. Let your child decide today how he/she would like to present the information.	Pretest your child on these spelling words: believe lie retrieve brief perceive shield died piece shriek eight pies siege freight receive sleigh leisure reign vein Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Introduce Where the Red Fern Grows by Wilson Rawls. See Reading, Week 32, number 1 for a short biography of the author. Have your child read chapters 1 and 2 of Where the Red Fern Grows. Have your child locate the Ozark Mountains in northeast Oklahoma and the Illinois River. Have your child imagine how he/she would go about raising \$75 for something he/she wanted very badly.	
Tuesday	Review the format for a bibliography. Have your child make a bibliography of all the resources used in writing the report. Make arrangements for your child to present his/her research tomorrow. Reserve space if your child wishes to display something or invite people over for a performance. Discuss the arrangements with your child.	Review this week's spelling words. Have your child complete More Vowel Digraphs (p. 323).	Bibliography: Have your child read chapters 3 and 4 of Where the Red Fern Grows. Ask your child: Is it better to earn something than to have it given to you? Explain your answer. Have your child read about Daniel Boone in an encyclopedia or other resource. Then, teach your child how to list the book in a bibliography. See Reading, Week 32, number 2.	
Wednesday	Have your child present his/her research to a "real" audience. You may invite neighbors to a puppet show or display a diorama at the library. Relatives and friends make a natural audience.	Have your child use each of this week's spelling words correctly in a sentence.	Discuss the tone of the book. How does the author establish the mood of the story? Have your child read chapters 5 and 6 of Where the Red Fern Grows. Why does your child think the townspeople were so cruel to Billy?	
Thursday	Have your child write text for a picture book. See Language Skills, Week 32. Challenge your child's critical thinking skills. Have your child complete problems 1–4 on Logic Puzzlers (p. 322).	Have your child study this week's spelling words.	Help your child compare Billy to a character in another book. Have your child draw a Venn diagram to map out the similarities and differences between the characters. Have your child read chapters 7 and 8 of Where the Red Fern Grows. Have your child do some research, then draw a diagram to show how a brace-and-bit trap works. Ask your child to document his/her sources in the form of a short bibliography.	
Friday	Review the different purposes for writing. Look at each page of a magazine together with your child. Have your child identify whether the page was written to entertain, inform or persuade. Some things are written to entertain and challenge. Have your child complete problems 5–8 on Logic Puzzlers (p. 322).	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child read chapters 9 and 10 of Where the Red Fern Grows. Ask your child to read aloud an exciting part of the story. Encourage your child to read with lots of expression.	

Math	Science	Social Studies
Demonstrate how to divide with a decimal divisor. Show your child how to move the decimal to the right to create a whole number. To keep the solution accurate, move the decimal in the dividend to the right the same number of spaces. See Math, Week 32, number 1.	Machines Review and discuss examples of the six simple machines. See Science, Week 32, number 1. Ask your child to identify simple machines around the kitchen. Explain that compound machines are made up of two or more simple machines.	American Business Leaders Brainstorm a list of famous American businessmen and women with your child. Provide appropriate resource materials so that your child can look up each person's name. See Social Studies, Week 32, numbers 1–2. Have your child group the people on the list by the type of work they have done that has brought them fame.
Show your child how to divide a decimal by 10 or 100. See Math, Week 32, number 2. Have your child divide a decimal fraction by 10 and compare the quotient to the dividend. Ask your child what would happen if you divided a decimal by 1,000. Give your child several problems to practice dividing decimals by factors of 10.	Ask your child to explain why it is easier to use a hammer to force a nail into a wooden board than to use only one's fingers and hands. Then, have your child name some other tasks that are made easier with the help of a simple machine. Example: loading a heavy box onto a truck is easier with the help of a ramp. Have your child make a pattern book based on this concept. <i>See</i> Science, Week 32, number 2 for more details.	Have your child choose one person from yesterday's list. Have him/her research, then write about the life and work of that famous American.
Sports statistics, such as batting averages in baseball, are often expressed in decimals. Have your child read the sports statistics published in your local newspaper. Discuss what the statistics actually represent. See Math, Week 32, number 3.	Can your child recognize simple machines in common household items? Have your child complete Simple Machines (p. 325).	Brainstorm with your child some of the qualities that the famous Americans you have discussed have in common. Discuss the qualities that your child possesses that may bring him/her recognition in the future. Have your child make a list of things he/she is good at. Have him/her make a second list of areas in which he/she would like to improve. Have your child make a plan of action.
Review and reteach the decimal concepts taught in Weeks 28–32. Give your child a sampling of problems for practice.	Levers: Introduce and explain the three classes of levers. See Science, Week 32, number 3. Have your child draw a tool that is a lever (such as a shovel, can opener or screwdriver) in his/her Science Log. Have your child label the class of lever and its three components.	Collect newspapers over a period of several days. Have your child skim the papers for interesting stories about local or national figures who have done well. Have your child read some of the articles about these people. Then, have your child write a prediction about what those people may accomplish in the future.
Quiz your child on his/her understanding of decimals. Have him/her complete Working With Decimals (p. 324). Releach any concepts your child finds difficult.	Allow your child to explore different tools that are examples of levers. For example, lead your child to discover the best place on the handle to hold a shovel to make digging easiest. Common levers include hammers, scissors, pliers, nutcrackers, car jacks, seesaws, brooms, rakes, baseball bats, tennis rackets and shovels.	Arrange for your child to perform some community service.

TEACHING SUGGESTIONS AND ACTIVITIES



LANGUAGE SKILLS

Find a book that contains only pictures and no text. Have your child look through the book several times and imagine a story line. Affix a stickie note to each page. Have your child write text for each page on the note. Encourage your child to use descriptive language and dialogue.

READING (Bibliography)

- 1. Wilson Rawls was born in 1913, in Oklahoma. He had little formal schooling, but his mother taught him to read and write. He and his sisters read and reread books that his grandma bought for them. Wilson Rawls's life was changed forever by Jack London's book, *The Call of the Wild*. One day while working in the fields, Wilson Rawls decided he would write a book like London's. Mr. Rawls admits that this was an ambitious dream for a boy whose family was too poor to afford paper and pencils, but he was encouraged by his father's words: "Son, a man can do anything he sets out to do, if he doesn't give up." Mr. Rawls made several attempts at writing novels. It was his wife who encouraged him to write *Where the Red Fern Grows*, because it was about his own childhood. The book has since been serialized in magazines and newpapers and made into a movie.
- 2. Have your child look at several different bibliographies and copy the pattern generally used. Observe the punctuation used in the bibliographies. Entries for books should include the author's name, title, place of publication, publishing company and year published. Entries for articles should include the author's name, title of the article, title of the magazine or periodical, volume number and issue number, date and page numbers.

Book: Strunk Jr., William. *The Elements of Style*. New York: Macmillan Publishing Co., 1979. **Article:** Fraivillig, Judith. "Listen While They Work." *Creative Classroom* 13, no. 1 (August 1998): 62–64.

MATH (Decimals)

1. In decimal division, the divisor must be a whole number. The decimal point must be moved to the right until the divisor is a whole number, but you cannot make a change in the decimal divisor without making the same change to the dividend. If you moved the decimal one place to the right, you have multiplied the divisor and dividend by 10. Place the decimal point in the quotient directly above the newly placed decimal point in the dividend. Think of the division problem 3.4 ÷ 1.2 as a fraction (3.4). Multiply both the numerator and the denominator by 10 to make an equivalent fraction. The new (equivalent) division problem is 34 ÷ 12. Have your child work the following problems:

 $8.4 \div 2.1$

 $1.872 \div 0.36$

 $0.4712 \div 1.24$

 $1.12 \div 8.1$

 $17.7 \div 0.3$

2. To divide any number by 10, simply move the decimal point one place to the left.

Examples: $63 \div 10 = 6.3$

 $0.29 \div 10 = 0.029$

To divide any number by 100, simply move the decimal point two places to the left.

Examples: $63 \div 100 = 0.63$

 $0.29 \div 100 = 0.0029$

3. A batting average is always presented as a three-digit decimal fraction. Examples: 0.250, 0.333, 0.144. A player's batting average is found by dividing the number of hits by the number of times at bat. As a division problem, this is written as follows: 118 hits ÷ 463 times at bat = 0.255 batting average.



SCIENCE (Machines)

Review the six types of simple machines. Have your child name one or two examples of each.

lever

hammer, crowbar

wheel and axle

doorknob, wheels on a model car

wedge

chisel, doorstop

pulley

miniblind cord pull, flagpole pulley

inclined plane

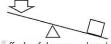
ramp or slide

screw

variety of screws

- Have your child think of tasks that are made easier with the help of a simple machine. Ask your child to imagine, then draw, how each task would get done without the aid of a simple machine. Have your child compile these drawings to create a book. Each page of the book will show someone doing work without the aid of a machine. At the bottom of each page, have your child write a line that is repeated throughout the book—something like Wouldn't that be easier with a _____? The book will essentially be an advertisement promoting the benefits of simple machines.
- Introduce and explain the three classes of levers. Explain that every lever has three parts: fulcrum, effort and load (resistance force). Sketch the following illustrations on the chalkboard. Identify the three parts and describe how the lever works. Have your child name examples of each class of lever.





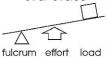
effort fulcrum



fulcrum load



3rd class





Have your child name and describe some inclined planes (ramps, steps, escalators, roller coasters, winding roads or trails up a mountain, water slides). Visit a factory or machine shop. Have your child look for inclined planes in the machinery. Have your child write a paragraph explaining the usefulness of an inclined plane.

SOCIAL STUDIES (American Business Leaders)

- 1. Have your child look up and define the following terms: businessman/businesswoman, industrialist and philanthropist. Discuss the differences in meaning of these terms.
- 2. Here is a brief list of famous American businesspeople:

Mary Kay Ash John Jacob Astor Andrew Carnegie Walt Disney Debbie Fields Henry Ford

Bill Gates Katharine Graham Howard Hughes Marjorie Child Husted Estée Lauder

Andrew Mellon Edward R. Murrow H. Ross Perot Joseph Pulitzer John D. Rockefeller

Helena Rubenstein William H. Seward Madam C. J. Walker Oprah Winfrey Victoria C. Woodhull

Logic Puzzlers



- 1. Four volumes of an encyclopedia set, Volumes A, B, C and D, are placed on a shelf out of order. Volume A is between B and C. Volume D is not next to Volume C, which is the first volume on the left. From left to right, in what order are the volumes?
- 2. My cat just tried to eat my telephone book. I cannot find pages 3,4,26,27,39 and 40. How many sheets of paper did my cat remove from the book?
- 3. Ken collects balls. Betsy collects postage stamps. Ken thinks 3 balls are as valuable as 2 stamps. If Betsy agrees to swap 14 stamps, how many balls will Ken need to give her?
- 4. (Do after completing #3.) Amy collects baseball cards. She thinks 5 stamps are worth the same as 1 card. If Amy decides to trade 2 cards, how many stamps should she receive? How many balls would she get?
- 5. Four people are introduced to one another at a party. Each of the four shakes hands with the other three. How many handshakes are there in all?
- 6. Four friends meet for dinner. One is a cab driver, one is a carpenter, one is an accountant and one is a fisherman. The four sit at a square table with one person on each side of the table. The carpenter is not sitting next to the cab driver, but the accountant is on the cab driver's left. Draw a square and write where each person is sitting. Put the carpenter at the bottom of your square.
- 7. James and Esther are brother and sister. Both are married and have children. Carolyn is James's wife. Ryan is Esther's husband. Ron and Gary are cousins in the same family. Gary is not James's son. Who is Ron's mother?
- 8. At Lee's next birthday he will be three times the age of his son, Robert. Robert is now two and a half times the age of his little sister, Michelle, who is 6. How old is Lee right now?

More Vowel Digraphs

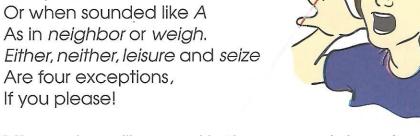
The vowel digraphs ie and ei usually carry the following sounds:

believe brief died eight freight leisure lie perceive piece pies receive reign retrieve shield shriek siege sleigh vein

ie = long i as in tie ie = long e as in relief ei = long a as in weigh ei = long e as in deceive

The following rhyme may be helpful to you: 1 before E Except after C Or when sounded like A As in neighbor or weigh.

Are four exceptions,



Write each spelling word in the appropriate category.

ie = ī



 $ie = \overline{e}$

- 2.

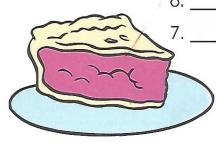


 $ei = \overline{a}$

3.

1. _____

- 1. _____
- 3. _____
- 4. _____



1. Write 207,426 in words.

2. Write forty-seven and thirteen thousandths in numerals.

3. Use > or < to indicate which decimal fraction is greater.

Fill in the blanks.

4. Round 12.836 to the nearest whole number.

5. Round 12.836 to the nearest tenth.

6. Round 12.836 to the nearest hundredth.

7. Write 0.36 as a fraction in lowest terms.

8. Write 0.25 as a fraction in lowest terms.

9. Write $\frac{3}{4}$ as a decimal number.

Solve.



Simple Machines

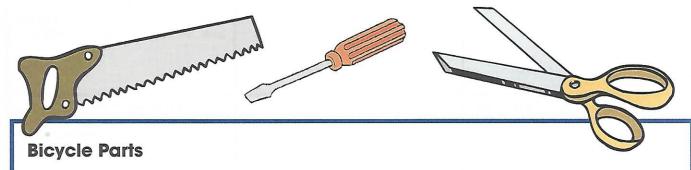
There are six simple machines that are the basic units of all complex machines: the lever, the wheel and axle, the wedge, the pulley, the inclined plane and the screw.

Recognizing Simple Machines

other

Which simple machines can you find in each of the tools listed below?

hammer scissors doorstop drill saw screwdriver monkey wrench



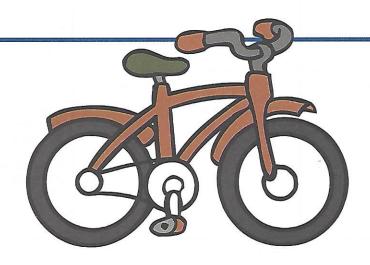
Study a bicycle carefully. Fill in the blanks with the simple machines you find.

tire _____ kickstand ______

caliper brakes ____ handlebars _____

chain and sprocket ____ gearshift _____

pedal and shaft ____ fork _____



	Language Skills	Spelling	Reading
Monday	Colons and Semicolons Teach your child about the different uses of the colon. See Language Skills, Week 33, numbers 1–4. Have your child look for examples in books he/she has read. Have your child write his/her own original sentences using the colon.	Pretest your child on these spelling words: auction dawn lawful audience fawns raw autumn flaunt scrawl awkward fraud shawl caught haunt taught cause jaw yawn Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Parts of a Book Have your child read chapters 11 and 12 of Where the Red Fern Grows. Have your child define determination, then list several ways that Billy shows determination. Review the parts of a book. See Reading, Week 33, number 1.
Tuesday	Teach your child about the different uses of the semicolon. See Language Skills, Week 33, numbers 5–7. Have your child look for examples in books he/she has read. Have your child write his/her own original sentences using the semicolon.	Review this week's spelling words. Have your child complete Very Important Digraphs (p. 331).	Have your child read chapters 13 and 14 of Where the Red Fern Grows. Have your child write an imaginary interview with Billy. Encourage your child to recreate Billy's mood and personality through the dialogue. Discuss some of the less familiar parts of a book. See Reading, Week 33, number 2.
Wednesday	Write several sentences on the chalkboard that should contain either colons or semicolons, but omit the punctuation. Have your child fill in the correct punctuation as necessary, then explain his/her choices.	Have your child use each of this week's spelling words correctly in a sentence.	Have your child read chapters 15 and 16 of Where the Red Fern Grows. Have your child write two questions about tomorrow's reading to give practice with reasonable predictions. Discuss the purpose of an appendix in a book. See Reading, Week 33, number 3.
Thursday	Test your child's critical thinking skills. Have your child complete Falsehood Follies (p. 330). Your child will have to read <i>very</i> carefully in order to solve these riddles!	Have your child study this week's spelling words.	Have your child read chapters 17 and 18 of Where the Red Fern Grows. Have your child jot down any unfamiliar words from today's reading, along with the sentence in which each word appears. Can your child guess each word's meaning from its context? Have your child try to guess the meaning, then look up the word in a dictionary. How accurate was your child's guess? Discuss whether his/her questions from yesterday were answered.
(Friday	Teach your child to use personification to create a vivid image in the reader's mind. Personification is granting human qualities or abilities to inanimate objects. <i>See</i> Language Skills, Week 33, number 8.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child read chapters 19 and 20 of Where the Red Fern Grows. Have your child draw a plot profile showing the range of excitement levels throughout the story. Have your child list events from the story along the horizontal axis and excitement levels along the vertical axis. Discuss the parts of a book. See Reading, Week 33, number 4.

NA - II-	Mark Calanda Carial Chadian		
Math	Science	Social Studies	
Money Introduce the study of money with a magic trick. Ask your child to put a dime in one pocket and a penny in the other. You are going to guess which coin is in each pocket. See Math, Week 33. Discuss with your child the basis of the trick. Challenge your child to make up a similar magic trick using the same basis.	Inclined Planes Help your child set up an experiment for exploring variables (height) with a ramp. See Science, Week 33, number 1. Have your child graph the results of the experiment. Along the side of the graph, show distance traveled. Along the bottom of the graph, show the height of the ramp. Have your child record the results of each trial. Discuss the results. Ask your child where this phenomenon may be seen in everyday life.	Have your child study a picture of Mount Rushmore. Discuss the famous Americans who are represented there and why they were chosen for the honor. Have your child design a new memorial for four famous Americans (let your child decide who will be honored). Have your child sculpt the memorial out of clay. This may take more than one day to complete.	
Play a game that will challenge your child to think of several ways to express the same amount of money. Grab a small handful of change. Do not show the money to your child. Give a series of clues (becoming gradually more specific) until your child guesses exactly what coins you have. Example: The coins add up to 69¢. Three of the coins have a textured edge. Two coins total 50¢. There are eight coins in all. Repeat, then try switching roles.	Help your child set up a second experiment for exploring variables (friction) with a ramp. <i>See</i> Science, Week 33, number 2.	Have your child finish the clay sculpture begun yesterday. Have your child write about the site for this new memorial, as well as the famous Americans it represents.	
One helpful problem-solving strategy is organizing data in a systematic way so that you know you have been thorough in your analysis. Ask your child to list every possible coin combination that totals 25¢. Encourage your child to organize the data in a meaningful way, such as a chart. Have your child start with the largest coins and work down to 25 pennies. There are 17 possible combinations.	An inclined plane is a plane set at an angle. It is especially helpful for raising and lowering objects with minimal effort. See Science, Week 33, number 3. Arrange a visit to a machine shop or a factory. Have your child look for simple machines in the shop or factory. Some of the simple machines may be found in compound machines.	For what do (did) famous Americans want to be remembered? Thomas Jefferson wrote the inscription for his own gravestone. He states three accomplishments, but not that he was president. What do you know about Thomas Jefferson that might explain that? Have your child read about the accomplishments and beliefs of one famous American. Using that information, have your child write an appropriate epitaph for the person.	
Plan a field trip to the bank. Arrange to speak with a loan officer. Have your child read about our banking system and prepare a list of questions such as these to ask the loan officer: How does the bank earn money? Where does the money come from to pay interest? How are bank employees paid? Why does the bank loan money? How does a savings account work?	Demonstrate the similarity between an inclined plane and a screw. A screw is really an inclined plane that raises and lowers wood along its inclined threads. See Science, Week 33, number 4. As you turn a screw into a piece of soft wood, have your child observe the wood shavings that travel up the threads of the screw. Ask your child to compare this to an object moving up an inclined plane.	Play "Twenty Questions" with your child. Think of a famous American. Allow your child to ask 20 yes or no questions to find out who it is. Repeat several times, then switch roles.	
Take your child to the bank. Have your child open a savings account and, if possible, interview a loan officer.	Help your child experiment with a variety of screws. <i>See</i> Science, Week 33, number 5.	Arrange for your child to perform some community service.	

TEACHING SUGGESTIONS AND ACTIVITIES



LANGUAGE SKILLS (Colons and Semicolons)

- 1. A colon is used when writing digital time. Ask your child to tell exactly where the colon is placed. (between the hour and minutes) Dictate some times for your child to write on the chalkboard.
- Use a colon to introduce a list of items, especially after the expression the following. Commas are used to separate the items in the list.

Example: The store window displayed the following items: a sled with a bear on it, six wrapped boxes, two young children dressed for winter and snow falling.

Do not use a colon if the list directly follows a verb or preposition.

Example: For the picnic, I will bring hot dogs, chips and watermelon.

- 3. A colon is used after the greeting in a business letter. **Examples:** Dear Ms. Smith: To Whom It May Concern:
- 4. Use a colon between two independent clauses when the second clause restates or explains the first clause. **Example:** It rained very hard on Saturday: the seedlings in our garden all washed away.
- 5. A semicolon is used between two independent clauses that are not joined by a conjunction. **Example:** Female sperm whales can grow up to 40 feet in length; males can grow up to 60 feet in length.
- 6. To avoid confusion, semicolons are used to separate items in a series when the items contain commas. Example: Jenny invited the following people to her party: her younger sister, Darla; Laurie, her neighbor; her cousin, Tanya; and me.
- 7. Use a semicolon to separate two independent clauses when there are commas within the clauses. **Example:** The killer whale typically travels in pods of up to 50 members; and it eats fish, birds, dolphins, penguins, porpoises and sea turtles.
- 8. Ask your child to remember a time when he/she had a strong feeling about something inanimate. Was your child frightened? Happy? Excited to see something for the first time? Encourage your child to give an inanimate object a human attribute in order to make a strong impression. Personification is like a metaphor: the object in a metaphor does not literally become what the sentence states, but it helps to create a vivid image. Examples: When I opened the garage door, a shiny blue bicycle got up and danced around the room and then smiled at me, saying, "I'm yours!"

I walked alone to the restroom in the dark campground. My eyes were wide as I looked around at every noise. The tree branches scratched menacingly at the air around me. They laughed with creaky voices at my fear.

READING (Parts of a Book)

- 1. Review the parts of a book. Have your child identify the following parts and describe what information each contains: spine, cover, jacket, title page, copyright page, table of contents, glossary, index and bibliography.
- 2. Introduce your child to some of the less familiar parts of a book: acknowledgments (recognizes sources and/or people who were helpful in making the book possible), dedication (an inscription to honor someone), preface (a statement usually written by the author that introduces the book and/or its scope, intention or background), foreword (like a preface, but usually written by a person other than the author), appendix (additional material usually at the end of a book).
- An experimental serial base of the appendices in several different books to see what type of material might be included in an appendix.
- ▶ 4. Ask your child some questions about different parts of a book.

Where in a book can you find the dedication?

What is the difference between a table of contents and an index?

What is the printing date of the book?

Why is the information in an appendix not in the main body of the text?

MATH (Money)

Magic trick: "I am going to tell you which coin is in each pocket. Listen carefully to my instructions. I need you to multiply the value of the coin in your right pocket by 15. Add 15 to the value of the coin in your left pocket. Add the numbers together and subtract 36. Now, multiply the difference by 100. What is your answer?" (If the answer is 13,000, the dime is in the right pocket. If the answer is 400, the dime is in the left hand.) The basis of this magic trick is that a dime (10¢) is worth more than a penny (1¢). When you ask your child to multiply, the pocket with the dime produces a greater number.

SCIENCE (Inclined Planes)

Oive your child a marble, a ruler (with a groove down the center), a meterstick and three blocks or bricks. Your child will need a bare floor in an open area to conduct this experiment.

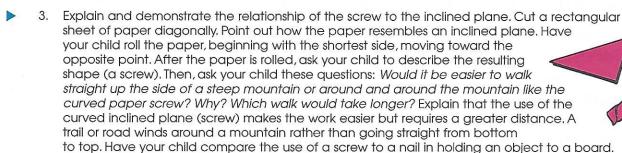
Question: Does the height of the ramp affect the distance a marble travels?

Directions:

- a. Place one block or brick on the ground. Lean the ruler on the edge of the block (groove side up).
 Hold the marble at the top of the ruler and let it roll down. Measure the distance the marble traveled and record this distance in meters and centimeters. Repeat for three trials.
- b. Place two blocks on the ground. Lean the ruler on the edge of the blocks and allow the marble to roll down three times. Record the distance of each trial.
- c. Place three blocks on the ground. Lean the ruler on the edge of the blocks and allow the marble to roll down three times, Record the distance of each trial.

Have your child analyze the results of the experiment. Discuss the answer to the question above.

2. Repeat yesterday's experiment. This time, use 3 blocks for each trial, but set up the experiment on different surfaces. For the first trial, set the ramp on concrete. For other trials, set the ramp on a thick carpet, sand and a bed sheet. Have your child record the data on a graph like the one shown here.



4. Help your child conduct an experiment with screws.

You will need: a variety of screws, a soft wooden board, a manual screwdriver, a hammer, a pencil and a nail. Directions:

- a. Use the hammer and nail to make some shallow openings in the wooden board. Space the openings across the surface of the wood.
- b. Select one screw and place in one of the openings.
- c. Use the screwdriver and count the number of 360° turns needed to force the screw into the wood until the head is flush with the board.
- d. Select another screw and force it into a different opening, counting the turns.
- e. Repeat with all the screws.
- f. Sort the screws by the number of turns required.
- g. Describe the differences in the force needed for each variety of screw. Explain.

Falsehood Follies

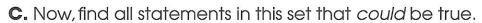
Here are some simple statements that are guaranteed to make you think. Carefully read and solve the first set before going on to the second.

- A. Only one of the following statements is true. Find it.
- 1. One of these statements is false.
- 2. Two of these statements are false.
- 3. Three of these statements are false.
- 4. Four of these statements are false.
- 5. Five of these statements are false.

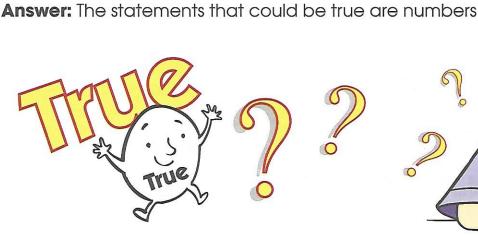
Answer: The one true statement is number _____.

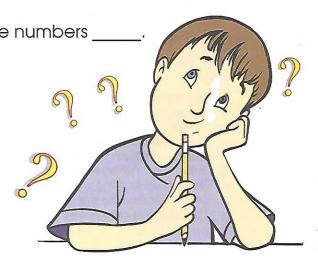
- **B.** Now, here is a slightly trickier variation. This time there are *two* true statements. To find them, you will have to **fill in** the blank in sentence number five.
- 1. One of these statements is false.
- 2. Two of these statements are true.
- 3. Three of these statements are false.
- 4. Three of these statements are true.
- 5. Four of these statements are _____.
- 6. Five of these statements are false.

Answer: The two true statements are numbers ____ and



- 1. If one statement is true, then three are false.
- 2. If two statements are true, then number 1 is one of them.
- 3. If three statements are false, then three are also true.
- 4. If one statement is false, then five are true.
- 5. If four statements are true, then number 4 is false.
- 6. There are six true statements in this set.





Very Important Digraphs

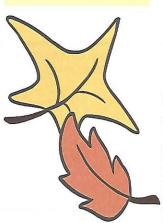
The vowel digraphs ${f au}$ and ${f aw}$ make the same ${f \hat{o}}$ sound.

Examples: fault, lawn

Write each spelling word in the appropriate category in the two inner triangles. After you have written each word, **circle** the digraph.

Then write the spelling words in alphabetical order in the two outer triangles.

auction audience autumn awkward caught cause dawn fawns flaunt fraud haunt jaw lawful raw scrawl shawl taught yawn





			Week 34	
	Language Skills	Spelling	Reading	
Monday	Complex Sentences Explain the difference between a compound sentence and a complex sentence. A compound sentence is made up of two independent clauses joined by a conjunction. A complex sentence is made up of a dependent clause and an independent clause. See Language Skills, Week 34, number 1. Have your child copy dependent clauses from a book he/she is reading.	Pretest your child on these spelling words: appointed eyebrow power boiling fowl shower county joyous spoiled destroying mountain stout disloyal noises surround employ pronounce thousand Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Nonfiction Help your child choose a nonfiction book to read (cover to cover) this week. Have your child check out other nonfiction books on the same topic, if possible. Use these books to show your child how to scan for information. See Reading, Week 34, number 1. Have your child complete Get the Facts, Max (p. 337).	
Tuesday	A dependent clause often contains a subordinating conjunction. This conjunction connects the phrase to the rest of the sentence. See Language Skills, Week 34, number 2. Have your child choose five subordinating conjunctions and use each in a sentence.	Review this week's spelling words. Have your child complete Dynamic Diphthongs (p. 336).	Teach your child to outline important information while reading nonfiction. See Reading, Week 34, number 2. Have your child read from the nonfiction book. Have your child outline the important information as he/she reads.	
Wednesday	A complex sentence contains one independent clause and one or more dependent clauses. A comma is generally used between the dependent and independent clauses, especially when the dependent clause comes before or in the middle of the independent clause. Examples: After I watched the movie, I went straight to bed. My mother, after she wakes up, has a cup of coffee. See Language Skills, Week 34, number 3.	Have your child use each of this week's spelling words correctly in a sentence.	Have your child finish reading and outlining the nonfiction book. Then, help your child think of an interesting way to present what he/she has learned. Allow time today, Thursday and Friday for your child to complete a project related to the topic.	
Thursday	Prepare a game in which your child must mix and match clauses to form sentences. You may take the clauses from sentences found in familiar books or make up your own. See Language Skills, Week 34, number 4.	Have your child study this week's spelling words.	Have your child scan the other nonfiction books he/she checked out from the library. Have your child use these books to gain additional information or to double-check facts for accuracy. Allow time for your child to work on the project started yesterday.	
(Friday	Consult a grammar book to teach your child about the different parts of speech that dependent clauses may take. Dependent clauses are also known as subordinate clauses.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child complete and present his/her project on the nonfiction topic of the week.	

	week 34		
Math	Science	Social Studies	
Talk about the different categories of spending, such as entertainment, food, clothes, charity and savings. Help your child plan a budget. The budget should show how much money your child takes in (each week/each month/each year) and how he/she would like to spend or save that money. Keep the budget realistic so that your child can maintain the plan. (Option: Have your child make a circle graph that shows how his/her total allowance will be spent.)	Wheels and Pulleys Gather at least five wheels of different sizes. You may use any circular object for this activity. Identify each wheel by writing an alphabet letter on masking tape and affixing it to the wheel. Have your child measure the circumference of each wheel in centimeters and record the measurements on a chart. See Science, Week 34, number 1.	Washington, D.C. Discuss the significance of Washington D.C. What type of business is conducted there? See Social Studies, Week 34. Study a map of the city with your child. Ask your child to locate major buildings and landmarks, such as the White House, the Capitol Building, the Supreme Court Building, the National Mall, the Pentagon and the Lincoln Memorial.	
Teach your child how to maintain a check register. Find an old register or get an extra from your bank. Show your child how to keep track of deposits and withdrawals using addition and subtraction. Remind your child to line up the decimals before adding or subtracting. Have your child complete Big Bucks for You! (p. 338).	Have your child study the wheel and axle of a model car. Demonstrate the function of the axle. In his/her Science Log, have your child explain why a wheel cannot operate without an axle. Ask your child to include a labeled diagram with his/her explanation.	Have your child draw pictures of the monuments dedicated to three of our nation's past presidents: Jefferson, Washington and Lincoln.	
Review mathematical operations with decimals and money. Have your child complete the problems found in Math, Week 34.	Have your child use a kit of plastic gears to design an interconnected moving model. Ask your child to observe how one gear causes another gear to move. Have your child compare the movement of a larger gear with that of a smaller gear. If you do not have access to gears, you can make gears from corrugated cardboard. See Science, Week 34, number 2.	Have your child plan a day or week in the city of Washington, D.C. Ask him/her to make an itinerary of things to see and places to visit. Have your child describe in writing why he/she chose these particular things to do. What is the significance of each?	
Give your child more practice with decimals and money. Have your child complete Snails in a Pail (p. 339).	Provide your child with a set of pulleys and a challenge. Challenge your child to design a system for raising a given object to a given height.	Our nation's capital was a well-planned city. Have your child read about the history of the city and its physical layout. Have your child write twelve facts about the layout of Washington, D.C.	
Review and reteach money concepts. Have your child imagine that he/she has exactly \$75 to spend. Ask your child to look through a toy catalog and write an itemized order that comes close to \$75 without going over. Have your child write three different orders with different combinations of purchases, each order totaling around \$75.	Have your child research some of the following inventions and their inventors: wind turbine, elevator, roller coaster, Ferris wheel, steamboat, automobile, motion picture, phonograph, compact disc, copy machine, rotary printing press, sewing machine, jet airplane, calculator, personal computer, vacuum cleaner. Have your child write a one-page report on one of these inventions. What types of simple machines make up the invention?	Arrange for your child to perform some community service.	



LANGUAGE SKILLS (Complex Sentences)

- An independent clause has a subject and a predicate and can stand alone: The dog ran after the cat. A dependent clause has a subject and a predicate but cannot stand alone: After the dog jumped the fence. A dependent clause can be combined with an independent clause, however, to form a complex sentence. In this first example, the dependent clause comes before the independent clause: After the dog jumped the fence, it ran after the cat. The dependent clause may also come after the independent clause: The dog ran after the cat after it jumped the fence.
- The following subordinating conjunctions may be used in a dependent clause to link the clause to the rest of the sentence: after, although, as, because, before, if, in order that, since, so that, though, until, when, whenever, whether, while.
- Write several independent clauses and dependent clauses (in two columns) on the chalkboard. Do not use any punctuation or capitalization. Have your child join the clauses to form complex sentences. Remind your child to add periods, commas and capital letters where needed.

Examples: though the wind blew

everyone cheered

after the music stopped

the temperature remained high

4. Write at least ten dependent clauses and ten independent clauses on index cards (one clause per card). Mix the cards together. Put the cards in a box at the language center. Have your child match dependent clauses with independent clauses to make sentences that make sense.

READING (Nonfiction)

- 1. Your child will probably not have the time or the desire to read all the nonfiction titles from cover to cover. Nonfiction is often organized with headings and bold print to help you scan or skim through as you search for specific information. Teach your child how to scan for information.
- Outlining follows a specific format of Roman numerals, capital letters, numbers and lower-case letters. Your child may not be able to fit everything into these neat categories as he/she is reading. Teach your child to take notes in sentence fragments at first, then clean up the organization later. See Reading, Week 24 for an example of the outline format.

MATH (Money)

Give your child the following pet store problems to solve.

- 1. Eli has 18 rabbits which he is selling for \$2.99 each. How much money will he earn if he sells all 18 rabbits?
- 2. You bought a parrot for \$2.39 and a myna bird for \$8.67. What was your total cost?
- 3. Kim is selling 12 goldfish for \$.84 total. How much does she receive for each goldfish?
- 4. Billie's teacher bought a ribbon snake for the classroom. It cost \$4.79. How much change did the teacher receive from a \$20,00 bill?
- 5. Pat is selling a pet python for \$9.99. A kitten costs \$13.45. What is the difference in their prices?
- 6. The school principal bought 60 guppies for the school carnival for \$23.40. How much did each guppy cost?
- 7. Myra is selling hamsters for \$1.41 each. How much will she receive for 40 hamsters?
- 8. Jeffrey sold 10 geckos for \$2.99 each. How much did he receive for all 10?
- 9. Your brother loves rodents. He buys a pair of mice for \$2.39 and a pair of hamsters for \$3.13. How much does it cost him altogether?
- 10. Marty sold 19 chameleons for a total of \$41.04. How much did he charge for each chameleon?

SCIENCE (Wheels and Pulleys)

1. Have your child use the information on the chart from Monday's lesson plan to solve the following problems:

a. Compare (by subtracting) the circumference of:

Wheel A and Wheel B

Wheel B and Wheel C

Wheel C and Wheel D

Wheel D and Wheel E

Wheel A and Wheel C

Wheel A and Wheel E

- b. How many times must Wheel A rotate to cover the same distance as Wheel C? as Wheel E?
- c. How many times must Wheel B rotate to cover the same distance as Wheel D? as Wheel E?
- d. How many times must Wheel C rotate to cover the same distance as Wheel A plus wheel E?
- 2. The important function of gears is to use a small amount of force to generate a great amount of motion. Explain how a steering wheel works in a car. A combination of gears allows a slight turn of the steering wheel to move the tires a greater distance. If possible, remove the back from a watch or clock to show your child the gear mechanism within. If possible, show your child how a car jack uses a gear mechanism to allow many turns of the handle to raise a heavy weight a small distance.

SOCIAL STUDIES (Washington, D.C.)

BACKGROUND

Every United States president except George Washington has lived and worked in Washington, D.C., while serving his term. Washington, D.C., the nation's capital, is the headquarters of the federal government. The city contains many famous buildings, monuments and museums. For this unit, gather maps and books about Washington, D.C. If possible, take your child to visit this important city.

Use the following questions to lead a discussion about the business of Washington, D.C.

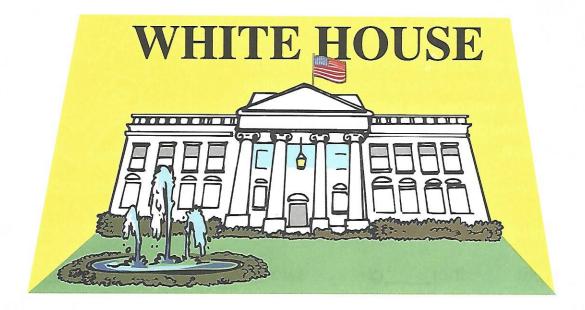
What is Washington, D.C.? Where is it? What forms its borders? Is it well located as the nation's capital? Why or why not? Was it well located when it was originally built?

What is the "main business" in Washington? How does it affect all U.S. citizens?

Name people (office holders) associated with Washington, D.C. In what buildings do they conduct the business of government?

How old is Washington, D.C.? When did it become the capital?

How old is the United States? When did it become a nation?



Dynamic Diphthongs

Diphthongs are two adjacent letters that both contribute to the vowel sound heard. The two vowel sounds are blended. **Examples: oi, oy** as in **coin, joy**; **ou**, **ow** as in **hound**, **flower**

appointed		
boiling county	Write each spelling word in the	he appropriate category.
destroying	oi	oy
disloyal	logs of the little	
employ eyebrow	1	1
fowl	2	2
joyous	3	3
mountain		
noises	4	4
pronounce power	ou	OW
shower	1	1
spoiled		2
stout	2	3
surround thousand	3	
modsand	4	4
	5	mo
		VIX Curum
1 the 18	6	TILE TO THE PARTY OF THE PARTY
	elephants! Remember that the	(1000)
	so be a vowel digraph carrying hollow . The letters ou can carry	III EM
	ugh, the ô as in thought or the	
ǔ as in southern .	•	Week !

Complete the words within each family by filling in the correct digraph.

ou as in thought	ou as in althou	gh ow as in hollow	ou as in southern
fght	thorgh	swall	cple
brght	bquet	marshmall	trble

Get the Facts, Max

Read the paragraphs to answer the questions below.

The islands of Aruba, Bonaire and Curação, sometimes known as the ABC islands, are part of the Netherlands Antilles. They lie 50 miles north off the coast of Venezuela. Three more islands, St. Eustatius, Saba and St. Martin (the northern half of which belongs to France), are approximately 500 miles northeast of the ABC islands.

Until 1949, the islands were known as the Dutch West Indies or Curação Territory. In 1986, Aruba separated to become a self-governing part of the Netherlands Realm.

On the island of Curação, most food is imported. Because it is so rocky, little farming is possible. The island is the largest and most heavily populated of the Netherlands Antilles. Its oil refineries, among the largest in the world, give its people a relatively high standard of living. Today, most people of Curação work in the shipping, refining or tourist industry.

Netherlands Antilles—Other Facts Area: Capital: Willemstad Aruba 75 square miles 111 square miles Bonaire Major Languages: Dutch, 171 square miles Papiamento (a mixture of Spanish, Curação 5 square miles Dutch, Portuguese, Carib and Saba English), English, Spanish St. Eustatius 11 square miles 13 square miles St. Martin

1.	Name the capital of the Netherlands Antilles.
2.	What industry gives the people a high standard of living?
3.	Name the ABC islands.
4.	What is Papiamento?
5.	Why must food be imported to Curação?
6.	Which island is smallest?
7.	Which two islands are the largest?
8.	Which island belongs in part to France?
9.	In what year did Aruba become self-governing?

Big Bucks for You!

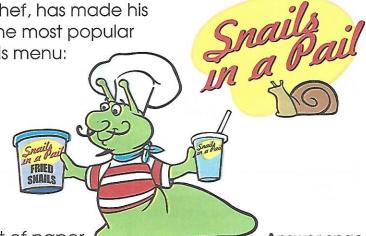
Sol	Answer space	
1.	You receive your first royalty check for \$1,000.00 and deposit it in your checking account. You go directly to the music store and spend \$234.56 on new CDs. What is your balance?	Alexander Land
2.	You naturally treat all your friends to pizza, which costs you \$47.76. You pay with a check. What is your balance now?	el de
3.	You decide to restock your wardrobe and buy \$389.99 worth of new clothes. What is your balance?	\$7,27.69
4.	Your next royalty check arrives, and you deposit \$1,712.34. You also treat yourself to a new 15-speed bicycle, which costs \$667.09. What is your balance?	A Contraction
5.	You buy your mother some perfume for a present. You write a check for \$37.89. What is your balance?	2/10/10
6.	You need a tennis racket and some other sports equipment. The bill comes to \$203.45 What is your new balance?	
7.	You treat your family to dinner at Snails in a Pail , where the check comes to \$56.17. What is your new balance?	
8.	You join a health club, and the first payment is \$150.90. What is your new balance?	MA STATE OF THE ST
9.	You deposit your latest royalty check, which amounts to \$4,451.01. What is your new balance?	
10.	To celebrate this good fortune, you take your entire peewee football team to a professional football game. The bill comes to \$4,339.98. What is your new balance?	

Snails in a Pail

Sly Me Slugg, world-famous French chef, has made his fast-food business, **Snails in a Pail**, the most popular

restaurant in the whole area. This is his menu:

Slime Soup	\$.49
Slugburger	\$1.69
Chicken-Fried Snails	\$2.99
Slimy Slush	\$.89
Snailcream Shake	\$1.49
Snailbits Salad	\$1.09



Solve the problems on another sheet of paper.

Answer space

- 1. Sly Me Slugg sold 60 Slimy Slushes and 40 Snailcream Shakes on Friday. How much did he make on drinks that day?
- 2. A coach treated 15 of his team players to Slugburgers. How much change did he receive from \$40.00?
- 3. Your brother was so hungry that he ordered one of everything on the menu. How much change did he get from a \$10.00 bill?
- 4. Sly Me Slugg sold \$43.61 in Slime Soup orders on Wednesday and \$38.22 in soup orders on Thursday. How many orders of Slime Soup did he sell in those 2 days?
- 5. You had a party at **Snails in a Pail** and bought 9 Slugburgers, 3 orders of Chicken-Fried Snails, 2 Snailbits Salads, 5 Snailcream Shakes and 10 Slimy Slushes. What was the total cost for the party?
- 6. In one week, Sly Me Slugg sold 200 Slugburgers and 79 orders of Chicken-Fried Snails. How much money did he earn from these 2 items?
- 7. You ordered 10 Slugburgers, 10 Snailcream Shakes and 10 Slimy Slushes. What was your total cost?
- 8. On Friday, Sly Me earned \$1,252. On Saturday, he earned \$1,765. On Sunday, he earned \$2,998. What was his average daily earnings for those 3 days?

	Language Skills	Spelling	Reading
Monday (Help your child choose a writing topic for this week's writing assignment. Have your child follow the steps in the writing process as he/she writes independently this week. For more information on the writing process, see page 6. Have your child make a plan for writing, then begin work on the rough draft today.	Pretest your child on these spelling words: answer false question broad freeze reward combine narrow separate council pause thaw cymbal plain true downstairs punish upstairs Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Have your child read about Theodor Seuss Geisel in a nonfiction book or encyclopedia. Introduce <i>The 500 Hats of Bartholomew Cubbins</i> by Dr. Seuss. Have your child read the book aloud. If you cannot read the entire book in one sitting, return to it quickly to maintain the feeling of the story.
Tuesday	Let your child continue to work independently on his/her writing project. Review writing and grammar skills as the need arises.	Review this week's spelling words. Have your child complete The "Nym" Family (p. 344).	Finish reading <i>The 500 Hats of Bartholomew Cubbins</i> . Have your child retell the story from the point of view of one of the minor characters, such as Sir Alaric.
Wednesday	Let your child continue to work independently on his/her writing project. Have your child proofread what he/she has written so far, using the proofreading symbols discussed in Reading, Week 30, number 2.	Have your child use each of this week's spelling words correctly in a sentence.	Obtain another book by Dr. Seuss. Compare and contrast it with <i>The 500 Hats</i> of Bartholomew Cubbins.
Thursday	Let your child continue to work independently on his/her writing project.	Have your child study this week's spelling words.	Have your child imagine what happened when Bartholomew got home that night. Have your child write about that night's events in an epilogue to the story.
(Friday	Have your child do a final edit and revision of his/her writing project.	Give your child the final spelling test. Have your child record pretest and final test words in his/her Word Bank.	Have your child choose another book by Dr. Seuss to read for enjoyment. Discuss different reasons for reading. Discuss how we adopt different reading styles when reading different types of books. Have your child compare how he/she would read poetry versus an instruction manual. Have your child complete Delivery Dilemma (p. 345). Your child must read the text carefully to gain information to solve the puzzle.

Math	Science	Social Studies
Percents Introduce your child to the concept of percent. See Math, Week 35. Teach your child how to write a fraction as a percentage. If the denominator is 100, the numerator can be written as a percent. If the denominator is not 100, find an equivalent fraction before making the percent. See Math, Week 35, number 1. Have your child complete Percents and Fractions (p. 346).	Making Work Easier Discuss some of the inventions that have made your child's life easier. Then, have your child read Shoes for Everyone by Barbara Mitchell. See Science, Week 35, number 1.	Washington, D.C. Washington, D.C. is not part of any state. Many local residents think it should be considered a state of its own. Have your child read about the local government of Washington, D.C. See Social Studies, Week 35, number 1.
Use models to demonstrate the relationships among fractions, percents and decimals. See Math, Week 35, number 2. Have your child complete Models (p. 347).	Inventions arise out of needs. Brainstorm with your child things that he/she needs. Discuss how a new invention could fill that need. Have your child design on paper an invention to fill one of those needs. Have your child include simple machines in his/her design. Alternative: Have your child invent a machine that turns something very simple into a very complicated process. (Think of the game "Mousetrap.")	When the president is elected, he/she chooses a group of advisors, called the Cabinet. Have your child read about the presidential cabinet and list the different departments. Have your child make a list of current cabinet members. What department does each member represent?
Have your child present the following information using a circle graph: Phillippe bought 100 flowers for his garden: 40 petunias, 20 pansies, 10 marigolds, 15 sunflowers and 15 violets. Have your child label the graph with the percentage of the garden represented by each type of flower.	Have your child read about the work of Rube Goldberg, a cartoonist and sculptor who drew silly inventions. <i>See</i> Science, Week 35, number 2.	Read about some of the highlights of Washington, D.C., such as museums, monuments and other buildings. Have your child use a map of the city to locate these places. <i>See</i> Social Studies, Week 35, number 2.
Have your child make a circle graph to show how he/she would spend \$100. First, have your child divide a circle into 10 equal parts. Each part represents \$10 or 10% of the \$100. Then, have your child decide how much he/she would spend on different things, rounding each amount to the nearest \$10. Example: Shade two sections if you will spend \$20 on tapes or CDs. Have your child shade each section of the graph a different color and label with the correct percentage. The graph should include a key.	Have your child construct a tower that can support a heavy weight. See Science, Week 35, number 3. Have your child write a paragraph describing what he/she learned from this experiment. Ask your child to consider the construction of tall buildings. What issues must engineers who build skyscrapers consider in their designs?	Have your child write five math word problems related to our nation's capital and the federal government.
Provide practical percent problems for your child to solve. Encourage your child to draw models to help solve the problems. Example: If this square is 80%, draw a shape that could be 100%. (Think as you did with fractions. Divide the square into eighths. Add two eighths to make the new shape.) See Math, Week 35, number 3.	Have your child design a maze for rolling a marble a given distance from a given height. See Science, Week 35, number 4.	Arrange for your child to perform some community service.





MATH (Percents)

BACKGROUND

You have already taught your child that decimals and fractions are two different ways of writing the same number. Now, introduce percents. A percentage is simply another way of expressing hundredths. In a bag of 100 marbles, for example, 25 red marbles represent 25% of the marbles. To demonstrate percents, use the same hundredth models used with fractions and decimals.

- 1. The fraction $\frac{35}{50}$ is easily rewritten as a percent: 35%.

 The fraction $\frac{4}{25}$ must first be rewritten as an equivalent fraction before it can be written as a percent. **Example:** $\frac{4}{25} = \frac{16}{100} = 16\%$
- Since percents are fractions of 100, they can be written as decimal fractions to the hundredths place. **Example:** $36\% = \frac{36}{100} = 0.36$
- 3. Here are some examples of practical percent problems:
 - a. The company invited its 240 employees to a picnic. If 75% came to the picnic, how many employees showed up? (180 employees)
 - b. Rob's little league team won 25% of the 16 games they played this year. How many games did they win? (4 games)
 - c. Of the children enrolled in the summer reading program, 90% reached their reading goals. If 135 children reached their reading goals, how many were enrolled? (150 children)
 - d. Selena bought a computer at a 30% discount. If the computer originally cost \$1200, how much did she pay for it? (\$840)
 - e. If Fiona has read 60% of her 300-page book, how many pages does she have left? (120 pages)

SCIENCE (Making Work Easier)

Locate a copy of Barbara Mitchell's book, Shoes for Everyone. The book is about Jan Matzeliger, who invented a shoe-lasting machine in the late nineteenth century. This invention revolutionized the shoe industry. After your child has read the book, ask the following questions:

Where did Jan live as a small boy?

What was his father's occupation?

Why did Jan think that shoes were so special?

When Jan left home at age 19, where did he go and what did he do?

Why did he have trouble finding a job?

Jan moved to which city in 1877?

Which shoe manufacturer hired Jan?

What was the shoe process of lasting?

What machine did Jan invent from cigar boxes and scraps of metal?

Why did he leave his job for a new job at Beal Brothers?

Who provided the money for Jan to build his lasting machine?

When did he finally get his patent?

What effect did his lasting machine have on the shoe industry?

What was the "shoemaker's disease" that killed Jan in 1889, when he was only 37 years old?

2. Have your child read about the cartoonist Rube Goldberg and his amusing, absurdly complicated devices for accomplishing simple tasks, such as scratching one's back or blowing out a candle. Try to locate some of Goldberg's cartoons in books or magazine articles. Have your child describe each element of the machines he drew and what happens in each step to make the next part work.



- You will need: 30 drinking straws, masking tape, scissors, metal washers and a metric ruler. Directions:
 - a. Using only 15 straws and masking tape, design and construct a strong, sturdy tower that stands at least 25 centimeters tall and has a flat surface on top.
 - b. Predict how many washers can be placed on the top surface before the tower collapses.
 - c. Carefully place the metal washers, one at a time, on the flat surface on top of the tower.
 - d. Continue to add metal washers until the tower collapses.

Have your child consider what he/she learned from the first tower. Then, have him/her construct a second tower, using the same materials, and repeat steps a-d. Was the second tower an improvement over the first?

4. Have your child design a device for rolling a marble through a complicated maze of tubes.

You will need: a variety of cardboard tubes, string, tape, a marble and a timer.

Directions:

- a. Tape or suspend one of the tubes to a high place in the room, such as the top of a door or cabinet.
- b. Continue to add tubes by attaching them to each other with tape.
- c. Create turns and dips as you add more tubes to the maze. Use tape or string to help support the maze.
- d. When the tube maze reaches the floor or a table, roll a marble through the maze.
- e. Measure the time that it takes the marble to complete its journey.
- f. Repeat steps d and e.

Was the time the same in each trial? What similar devices, such as a water slide or a museum maze, have you seen? Would a different size marble have a different travel time? Find one and see what happens.

SOCIAL STUDIES (Washington, D.C.)

▶ 1. Use some of the questions below to guide a discussion about the local government of Washington, D.C.

Who is the head of the city of Washington, D.C.? How does that person get to hold that office? What other positions are elected city offices? What powers do the mayor and commissioners have? Where does the city get its "spending money"?



What power does Congress have over the city?

Have the citizens of the city always been allowed to vote for local offices?

Have they been able to vote for national officials?

What have been some of the different voting laws for residents of Washington, D.C.? What are they now? What are the restrictions on their one delegate to Congress?

Do you think Washington, D.C. should become a state? Give reasons for your answer.

- 2. Here is a partial list of the highlights of Washington, D.C.
 - a. The Smithsonian Institution is made up of several museums, each with a different focus. All are free.
 - b. The U.S. Holocaust Memorial Museum and the Vietnam Veterans Memorial Wall serve as reminders of two very important moments in history.
 - c. The Bureau of Engraving and Printing makes money. Find out whose pictures are on the different denominations of bills and what is on the opposite side.
 - d. The Capitol Building houses the Senate and House of Representatives. Visit the offices of your representatives or observe the House or Senate in session.
 - e. The Supreme Court Building houses the third branch of the U.S. government. Find out the names of the current justices.
 - f. The Library of Congress is the largest library in the world. Find out what books and other important items are housed there.
 - g. The National Archives houses important documents in our nation's history. These documents are protected in special fireproof cases.

The "Nym" Family

answer broad combine council cymbal downstairs false freeze narrow pause plain punish question reward separate thaw true upstairs

Words that have similar meanings are called synonyms.

Examples: trip, journey

Words that have opposite meanings are called **antonyms**.

Examples: hot, cold

Words that sound the same but have different spellings and meanings are called homonyms. Examples: blue, blew

Use the word list to unscramble the spelling words below.

Then, draw a line to connect	each pair of antonyms.				
etusniqo	zrefee				
draiswtson	wersan				
waht					
	treapsea				
odarb	riusptas				
Write a synonym for each of the following.					
to chastise	faithful				
a prize	erroneous				
Write the homonym that will complete each pair.					
1. plane	3. paws				
2. symbol	4. counsel				
nomonyms.					
5	9				
6.	10				



_____ 12.

_____ 7. _____

8.

11. _____

Delivery Dilemma

Dilly's Deliveries is under new management, and the new boss just instructed his top driver to follow a most peculiar route. The driver is to deliver packages to each of the eight businesses shown below, but she is not necessarily meant to visit them in a logical order.



Help the confused driver plan her route. Number the businesses above in the order in which they should be visited in the first blank. **Write** the number of packages to be delivered in the second blank.

- 1. The second delivery is directly north of the first delivery and has one fewer package than the first.
- 2. Melody's Music needs all five packages delivered before 11:00 A.M.
- 3. By the time the paperwork is completed, the packages are verified and greetings are exchanged between the driver and the recipient, each delivery takes fifteen minutes.
- 4. The bank is never the last delivery. It always receives four packages.
- 5. Troy's Toys has the most packages of all. His delivery will contain as many packages as all the others combined.
- 6. Pete's deliveries are live animals, which need to be unloaded first when the store opens at 9:30 A.M.
- 7. The fourth delivery is directly east of the first delivery and contains twice the number of packages.
- 8. The travel agency and the pet store combined are to receive the same number of packages as the music store.
- 9. The fifth delivery contains three boxes.
- 10. The third delivery is two stores west of the second.
- 11. The tire store, the grocery store and the pet store will all receive the same number of packages. They are the only ones to receive this exact amount.

Percents and Fractions

Write the fraction and percent represented in each situation.

Situation	Fraction	Percent
30 marbles out of 100 marbles are red	30 100	30%
29 people out of 100 people voted.		
10 fish out of 100 fish are tropical.		
7 cats out of 100 cats live indoors.		
4 turtles out of 100 turtles laid eggs.		versi vertire
7 out of 10 puppies had spots.	$\frac{7}{10} = \overline{100}$	D Colores or
5 out of 10 baskets were made.		
6 out of 25 rocks in my yard are igneous.	<u>6</u> 25 = 100	
17 out of 25 rulers are metric.	o aerito edita sico edi eca	co regionale neview r mrs
18 out of 20 goldfish are orange.	vils offs alwey lenges	io a engo enca Toc at sect or tocalic rectinu
The dress was reduced \$5 from \$20.		evisa rahar



Draw the model and **fill in** the missing fraction, percent or decimal.

Draw	Fraction	Percent	Decimal
			0.25
	<u>37</u> 100		
		18%	
	<u>7</u> 10		
		4%	

	week 50 — Findi Revie					
	Language Skills	Spelling	Reading			
Monday	Review Review parts of speech. Give your child a paragraph from a book. Ask your child to circle the nouns, underline the verbs once, underline the pronouns twice, draw stars above the adjectives and draw boxes around the adverbs. Finally, ask your child to go back and highlight all the conjunctions, prepositions and interjections. Reteach the parts of speech that your child cannot readily identify.	Review Select words from the past eight weeks for this week's pretest. Have your child correct the pretest. Add personalized words and make two copies of this week's study list.	Review Have your child select the reading book for this week. Ask your child to write a prediction of what he/she expects to learn from the book. Use this book to review the language skills listed each day this week. Discuss new vocabulary from the book.			
Tuesday	Review punctuation: commas, periods, colons, semicolons, exclamation marks, question marks and quotation marks. Copy a paragraph from a book, omitting all punctuation. Have your child fill in the correct punctuation. Reteach any punctuation that your child has difficulty using correctly.	Have your child sort the spelling words from the past eight weeks by number of syllables. Which group (one-syllable words, etc.) contains the greatest number of words? Which contains the least? What percentage of the words studied have three syllables?	Have your child write a sentence or two describing the main idea of each chapter as he/she reads.			
Wednesday	Review sentence structure. Have your child write a paragraph on a topic related to this week's reading book. Ask your child to include a variety of sentences (simple, compound and complex). Check your child's work for subject/verb agreement and complete sentences. Reteach, if necessary.	Have your child sort the spelling words from the past eight weeks again, this time by parts of speech (nouns, verbs, adjectives, etc.). In which category does the majority of the words belong? What is the ratio of nouns to verbs?	Ask your child to identify the problem in the story. Have him/her predict how the problem will be solved.			
Thursday	Review the four different kinds of paragraphs. Give your child a newspaper. Have your child locate examples of each type of paragraph: narrative, expository, descriptive and persuasive.	Help your child make a crossword puzzle with spelling words from the past eight weeks. your child should use definitions as clues. Once the puzzle is completed, let your child give it to a friend to solve.	Have your child list phrases from the book that express opinions. Then, have your child list phrases from the book that express facts.			
(Friday	Have your child write about what he/she has learned this year and what he/she hopes to learn next year.	Give your child the final spelling test.	Have your child analyze his/her predictions about the book. How accurate were they? Have your child write a summary and review of the book.			

Math	Science	Social Studies
Ratios Ratios, like fractions, compare numbers. Fractions are ratios that compare parts to the whole. Ratios may also compare parts to parts, time to distance, rates and probabilities. See Math, Week 36, number 1. Have your child find examples of ratios in the newspaper or in comparisons that you use regularly.	If possible, plan a trip to visit an amusement park. Have your child observe and record (with diagrams) the types of simple machines found on the rides.	Washington, D.C. Have your child write twelve sentences related to Washington, D.C.—six about the capital and six about the Capitol.
A ratio of 1:1 means there is the same number of each object. There is a 1:1 ratio of feet to shoes when there are two shoes and two feet. There may be a 1:1 ratio of cars to drivers on the road if all the cars have one driver. Teach your child to simplify ratios. To name equivalent ratios, multiply or divide both numbers by the same number. Example: 4:8 = 2:4 = 1:2 Have your child simplify given ratios. <i>See</i> Math, Week 36, number 2.	Have your child interview an inventor or read a biography of an inventor.	Washington, D.C. is considered to be a national symbol. Have your child explain why this is so. Then, have your child design a souvenir that might be sold to tourists who visit the capital city.
Review: Review and reteach concepts taught this year. Repeat activities that your child found especially difficult or challenging.	Have your child write "What-Am-!?" riddles about simple and compound machines. Provide your child with a list of machines, or let him/her choose others. The riddle should be made up of clues about the work the machine does and how it is built. The clues should start out broad, then become more specific. See Science, Week 36.	Have your child study the interior of the White House. Discuss the purpose of the different rooms. Discuss the influence of different presidents and their spouses. Pose the following question: If you could live in the White House, which room would you choose to be your own? Explain.
Give your child a final test on math concepts. Have your child complete Final Exam (p. 352).	Review the concept map maintained over the course of this unit. Ask your child to recall information outlined in the concept map. Review pertinent vocabulary.	Have your child compare Washington, D.C. with another city he/she knows. See Social Studies, Week 36, number 1.
Reteach any concepts missed on the exam. Then, celebrate the learning that took place this year.	Help your child use tools to construct something out of wood. Discuss the simple machines that make up the tools and other building supplies.	Assess your child's community service experience. Ask your child to choose the services he/she liked best. Have your child write an honest evaluation of his/her performance. Play a game with clues about sights in Washington, D.C. You will need a copy of See the U.S.A. (p. 353). See Social Studies, Week 36, number 2.

TEACHING SUGGESTIONS AND ACTIVITIES



MATH (Ratios)

In the last few lessons, your child has been working with forms of ratios. *Ratios* are basically comparisons of different units. Percents compare the number of parts to 100. Miles per hour compares miles to hours. Batting averages compare hits to the number of times at bat. Challenge your child to locate ratios encountered in his/her everyday life. Help your child learn to recognize ratios and write them down in two ways.

Examples: children in the family—3 girls to 2 boys or 3:2 red cars to blue cars—14 red to 23 blue or 14:23

Have your child practice this format by naming ratios he/she sees in your home. Have your child compare seats to people, books to boxes, wheels to bicycles, hands to fingers, pounds to ounces and so on.

2. Write the following ratios on the chalkboard. Have your child simplify each one.

4:6	6:21	2:12	5:25	4:18	7:14	100:1000	90:100
5:15	3:9	12:42	5:100	8:88	34:170	24:36	14:21

SCIENCE (Machines)

Have your child compose a series of riddles about simple or compound machines. Read the riddle below to your child, as an example.

What Machine Am I?

You may use me every day.

I am made up of several simple machines.

I have a wedge that pierces metal.

I have two levers that come together.

I have some gears that turn around.

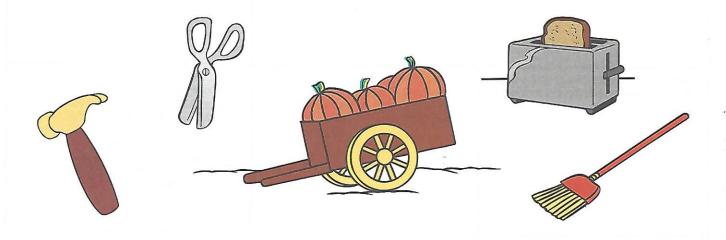
If you want soup, I should be found.

What Am !? (Answer: a can opener)



Write the following machines on separate index cards. Have your child choose a card, then write a riddle about the device. Repeat with other cards. Write a few riddles for your child to solve as well.

weed cutter too wheelbarrow co	aster ar jack	no "v "v	fingernail clipper salad spinner cookie cutter
perior diaporter (a)	ПР	DIOOITI	lawn sprinkler



SOCIAL STUDIES (Washington, D.C.)

1. Have your child use the following questions as guidelines when comparing Washington, D.C. to another city.

What social problems do the cities have?

What are their public transportation systems like?

Do the people participate in the same type of recreational activities?

What kind of work do many of the people do?

What are the downtown areas (shopping areas) like in each city?

What are the backgrounds of the citizens in each community?

What are the major local industries?

Which city has a greater population density?

2. Play a simple game using the game board pictured on **See the U.S.A.** (p. 353), the clues below and a die. Copy the game board and laminate for durability. Write each of the clues below onto a separate index card. (You may also want to add additional clues on other social studies topics covered this year—historical events and people, geographic regions, etc.) Include the answer at the bottom of each card. Stack the cards facedown next to the board. Roll the die to see who goes first. Player 1 then rolls the die again. His/her opponent draws a card and reads the clue aloud. If Player 1 answers correctly, he/she moves the number shown on the die and rolls again. If Player 1 does not answer correctly, Player 2 takes a turn. The first player to reach "Finish" wins the game.

Clues for the game cards:

It has 897 steps to the top. (Washington Monument)

The constitutionality of laws and government practices are discussed here. (Supreme Court)

An Englishman who had never come to America gave it as a gift. (Smithsonian)

President Madison lived here when the White House was destroyed by fire. (Octagon House)

The nation's documents are preserved here. (National Archives)

The names of over 58,000 men and women are inscribed on its black walls. (Vietnam Veterans Memorial)

It's green and lies between the Capitol and the Lincoln Memorial. (The Mall)

She is on top of the Capitol's dome. (Liberty)

The use of alcohol, tobacco and firearms is controlled by this cabinet department. (Treasury)

U.S. foreign policy originates and is carried out here. (State Department)

It makes our paper money. (Bureau of Engraving and Printing)

John Wilkes Booth fatally wounded President Lincoln here. (Ford's Theater)

It is home to the National Symphony Orchestra. (Kennedy Center for the Performing Arts)

Thirty-six columns around this structure represented the states in the Union at the time. (Lincoln Memorial)

National Parks and Monuments are under this department's jurisdiction. (Department of Interior)

Its circular dome honors the man who stands inside. (Jefferson Memorial)

It is guarded twenty-four hours a day, but it is not in Washington. (Tomb of the Unknown Soldier)

The history of flight is displayed here. (National Air and Space Museum)

It is authorized to investigate federal crimes. (Federal Bureau of Investigation)

It has exactly 100 members. (U.S. Senate)

Its three buildings contain approximately 100 million items written in 470 languages. (Library of Congress)



1. Write out 2,645,782.06 in words. _____

Solve.

3.
$$13,692 + 78 + 313 = a$$
 4. $37 \times 30 = y$

4.
$$37 \times 30 = v$$

Estimate.

- 7. Find the average of these numbers: 7, 12, 29, 15, 18, 15. _____
- 8. Identify each polygon.





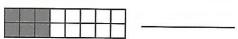


9. Find the perimeter and area.





10. Write this fraction in lowest terms.



11. Use < or > to indicate which fraction is greater. $\frac{7}{9}$ $\frac{4}{9}$ $\frac{5}{12}$ $\frac{5}{9}$

Solve.

12.
$$\frac{3}{11} + \frac{5}{11} =$$

14.
$$3\frac{1}{3} + 2\frac{1}{2} =$$

15.
$$12\frac{5}{6} - 1\frac{1}{4} =$$
 16. $\frac{7}{8} \times \frac{1}{4} =$ 17. $\frac{4}{5} \div \frac{2}{3} =$

16.
$$\frac{7}{8} \times \frac{1}{4} =$$

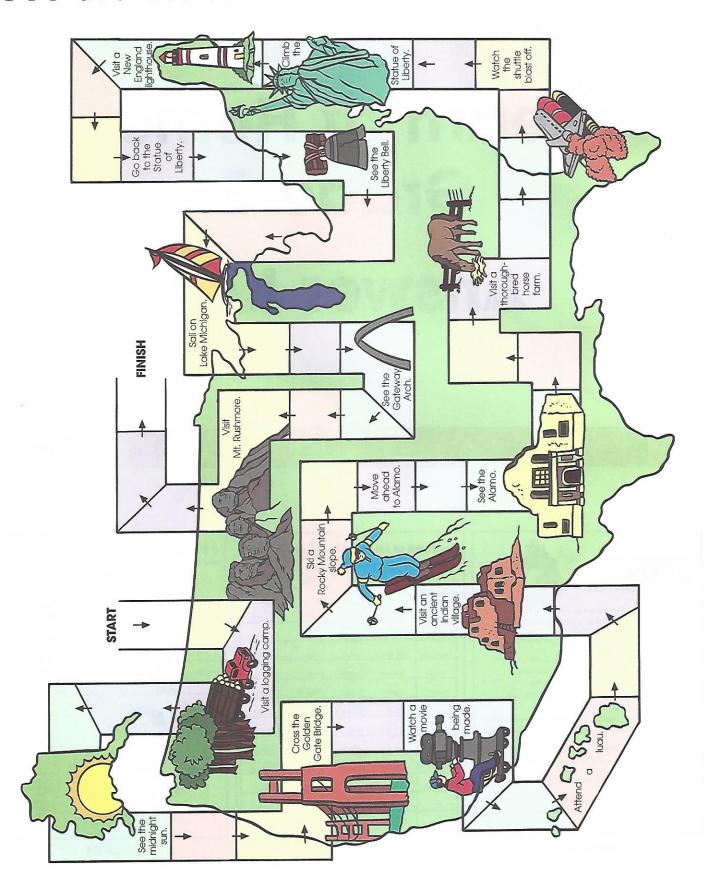
17.
$$\frac{4}{5} \div \frac{2}{3} =$$

- 18. Change $\frac{18}{5}$ into a mixed number. _____ 19. Write 3.4 as a mixed
 - number in lowest terms.

Add, subtract, multiply or divide.

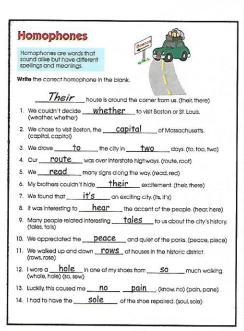
- 24. Write 35% as a fraction.
- 21. 4.8 x 1.3 =
- 23. 37.75 ÷ 100 = _____
- 25. 17.2 ÷ 8 = ____

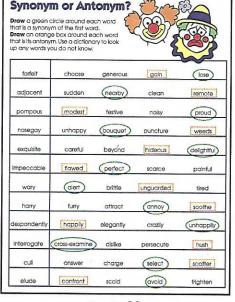
See the U.S.A.



Learn at Home Grade 5 Answer Key





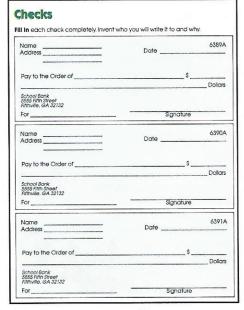


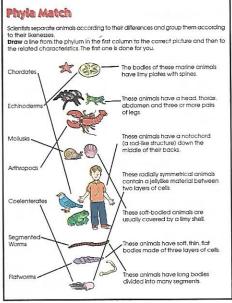


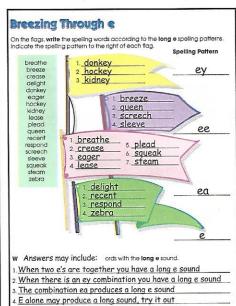
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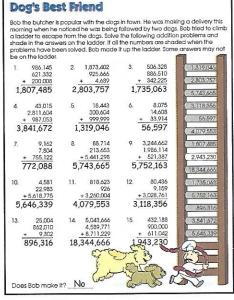
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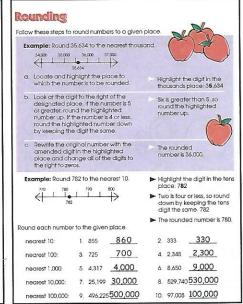
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Date Title _		-
Vocabulary	Definitions	_
		_
Settling:		_
Characters:		_
	\	
Problem:	will vary.	
Problem:	wers will vary.	- - - -
Problem:	wers will vary.	
Problem:Ans'	wers will vary.	
Problem:Ans'		

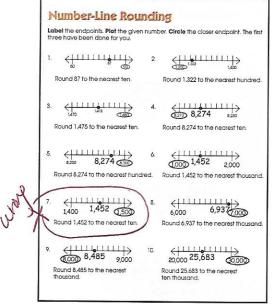


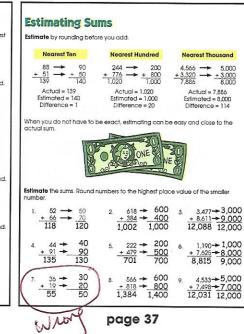


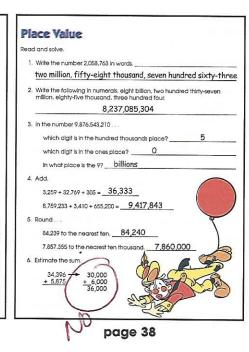
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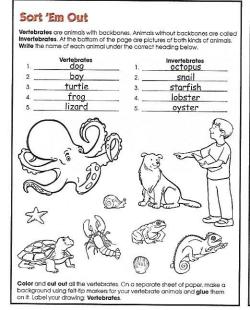


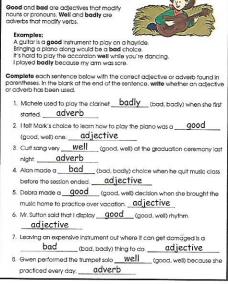


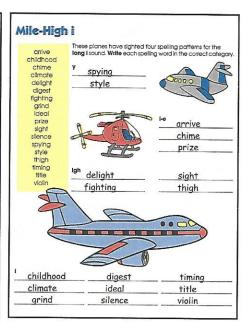




Good, Bad; Well, Badly





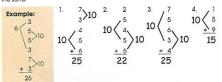


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An easy way to add a column of single-digit numbers is to find all those that equal ten first. Show how you would group these numbers, then add them to find the sums.



When a number shows up several times, add those digits first.

Example:		5.	4	6.	3	7.	5
2	(four 2's = 8)		2		7		4
2	(100123-0)		2		7		5
2			2	5	+ 7		4
5	8		+ 2		24		+ 4
2	+ 5		12				22
+ 2	13						

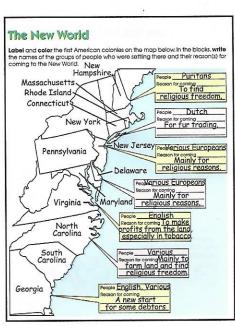
As Jean walked through the woods, she turned over 6 rocks and counted the number of Insects under each. She found 4, 6, 6, 4, 8 and 2 Insects under the rocks. How many insects did she count?

30 insects

The number of Atlanta Braves batters in the nine innings were 3, 3, 4, 5, 5, 3, 3, 3 and 6. How many Braves batters were there in the game?

35 batters

Opposite Operations 10 + 3 = 13 10 + 3 = 13SESSE EDES HERE ESS ERESSEES SE 5 = 9 - 410 = 13 - 3 13 - 10 = 3Complete the addition and subtraction sentences. 1. 8 + 6 = 14 2. 7 + 4 = 113. 12 + 8 = 2011 - 7 = 420 - 8 = 12 14 - 8 = 65. 92 + 108 = 200 6. 213 + 13 = 226 4. 12 + 6 = 18200 - 92 = 108 226 - 213 = 13 <u>18 - 6 = 12</u> 9. 25 - 8 = 17 7. 22 - 10 = 12 8. 144 - <u>76</u> = 68 17 + 8 = 25 12 + 10 = 22 76 + 68 = 14410. 14 = <u>21</u> - 7 11. 39 = <u>51</u> - 12 12 11 = 20 - 9 21 = 7 + 14 51 = 39 + 12 20 = 11 + 9 13. After 6 more people walked into the museum, there were 14 people inside. How many people were inside before the 6 entered? 6 + 8 = 1414. When I added 11 more rocks to my collection, I had 37 rocks. How many rocks did I have before? <u>26</u> + 11 = 37 15. On a Sunday afternoon, we drove to the lake to view the fall colors. We drove a total of 58 miles. If the return trip was 29 miles, how far was the trip there 29 + 29 = 58.



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Proper Adjectives

Adjectives are words that describe nouns. Proper adjectives are formed from proper nouns, and they must be capitalized. Other adjectives are called common nouns

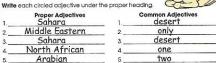
proper adjectives: French toast, American flag common adjectives: cold toast, waving flag

- Circle all the adjectives in the sentences below. Camels have carried loads across desert sands for centuries.
- Comes note carried locks across aggregations in Centralies.

 They were once the (Chi)means of transporting goods across the (Chara) Desert and (Michael Eastern) deserts.

 The (Chara) Desert is in the (North Africa) desert) egion.

 The (Chara) Come in a Comphump, while the (Eastern) desert is come in the (Chara) deserting a come in the Characteristic come in the Cha
- 5. The Bactrian carnel got its name long ago from a Central Asian country known as Bactrla.
- Both types of camels are used in some Asian regions.
 In wars fighting men have ridden the faithful camel.
- 8. The camel Napoleon rode during his Egyptian
- campaign was later put in an exhibit



Bactrian Central Asian Asian Egyptian

fighting faithful page 54

some

Honing Long o Skills

soak

Write each long o word in the appropriate category. Answers may vary.

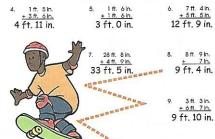
Long o Categories oa buffalo cloak chose arrow chrome burro foam grown gopher loan compose knowing loaves solo cove rows roast

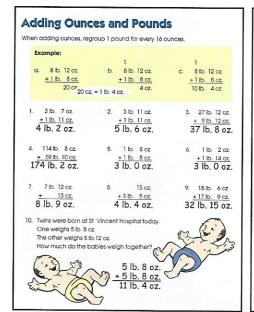
buffalo	Answers may vo	- /			
chose	1. buffalo	_(N	10	soak	
chrome	2. burro	_(N	11	chose	
compose	3. gopher	_(N	12	chrome	
foam gopher	4. solo	_(N	13	compose	_
grown knowlng	5. cloak	_(N	14	cove	118
loan	6. foam	_(N	15	arrow	
loaves roast	7. loan	_(N	16	grown	
rows soak	8. loaves	_(N	17	knowing	
solo	9. roast	_(V)	18	rows	

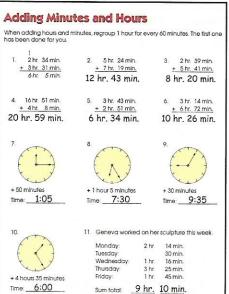
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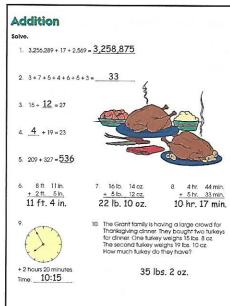
When adding Inches, regroup 1 foot for every 12 inches. 1 1 ff. 8 in. c. + 1 ff. 8 in. 4 in. 1 ff. 8 ln. + 1 ff. 8 ln. 3 ff. 4 ln. 1 ff. 8 ln. + 1 ff. 8 ln. 16 ln. 16 in. = 1 ft. 4 in. 2. 12 ft. 10 in. + 1 ft. 5 in. 14 ft. 3 in. 21 ft. 3 in. 4 ft. 1 in. 1 ft. 6 ln. 1 ft. 6 ln.

Adding Inches and Feet



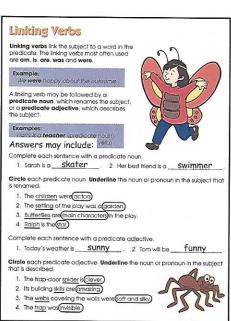


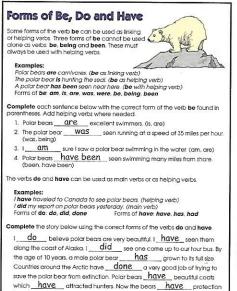




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argue blue confuse	The words in the list have the oo or yoo sound. Write each word in the appropriate category. Classy oo Categories					
due duke dune	u-e confuse	ue arque	u ruby			
excuse Include	duke	blue	truth			
issue museum	dune	due	tulip			
plume	excuse	issue	museum			
ruby rude	include	tissue				
statue tissue	plume	statue	()			
truth	rude		100			
tube tulip	tube		The second			
Oopsi We have el	ephant words. Just like e o or yoo sound spelled by. Write the five elepha	with lew , as in revie nt words in alphabe	w, o-e, as in lose			
reau as in beaut umber of syllable	Elephan whose beau	t Words	lose			
r eau as in beaut umber of syllable	Elephan whose bear	t Words	lose (2)			
r eau as in beaut umber of syllable review	Elephan whose bear	t Words utiful preview 3preview				

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from hunters by law.

Estimating Differences

To estimate differences, round the numbers and then subtract. This skill can be used daily. An example of this would be when you travel by car. If you have a distance of 862 miles to travel and you've gone 381, you can round and subtract in your head—900—400 leaves approximately 500 more miles to go.



Nearest Ten	Nearest Hundred	Nearest Thousand
48 -> 50	841 → 800	6,780 → 7,000
- 13 -> 10	- 289 → - 300	-1,912 → -2,000
- 40	552 - 500	4,868 5,000
Actual = 35	Actual = 552	Actual = 4,868
Estimated = 40	Estimated = 500	Estimated = 5,000
Difference = 5	Difference = 52	Difference = 132

Keep in mind that these answers are approximate, so this method should not be used if you want an exact answer.

7.57575550001.5850002.001.46500						
Subtract by estim	nating.					
1. 93 - 68 -	90 70 20	2	571 → 139 →	600 100 500	3	4,899→5,000 1,916→2,000 3,000
4. 88→ - 19→	90 20 70	5.	912 → 778 →	900 800 100	6.	8,211→8,000 - 5,928→6,000 2,000
7. 71 → - 28 →	70 30 40	8	622 266	600 300 300	9.	6,935 → 7,000 - 2,899 → 3,000 4,000

Opposite Operation of Subtraction

Write the missing number in each subtraction sentence. Check your answer with addition. The first one shows you how.

Two subtraction problems can be made from the same model. **Complete** the subtraction sentences below. **Write** a second subtraction sentence for each based on the same model.

11 - 7 = 48. 33 - 22 = 119. 87 - <u>31</u> = 56 7.12 - 5 = 733 - 11 = 22 87 - 56 = 31 12 - 7 = 510. 20 - 8 = 12 11. 85 - 60 = 25 12. 187 - 65 = 12285 - 25 = 60 187 - 122 = 65 20 - 12 = 8

After I gave my friend 12 rocks from my collection, I still had 15 rocks. How many rocks were in my collection before I gave some away?

27 rocks

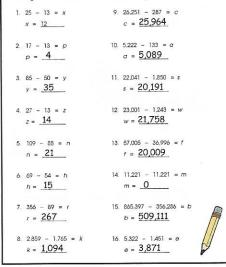
14. The bag of cookles had 20 cookles in It. Joe took some out for his lunch and left 12 in the bag. How many cookles did Joe take for lunch?

8 cookies



Variables in Subtraction

A variable is a letter in an equation that stands for what is not known. Solve for the missing number. The first one has been done for you.



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Irregular Verbs

Verbs that do not add **ed** to show the past tense are called **irregular verbs**. Irregular verbs change in spelling in the past tense.



Fill in the blanks on the chart. You may refer to a dictionary

Present	Past	Past with helpers
speak	spoke	spoken
take	fook	taken
ride	rode	rldden
choose	chose	chosen
ring	rang	rung
90	went	gone
drink	drank	drunk
drive	drove	driven
draw	drew	drawn
know	knew	known
eat	ate	eaten
do	did	done

did Underline the correct verb in each sentence below

- 1. Martha has (began, begun) her research project.
- First, she (chase, chosen) the topic.
 She (drove, driven) many places to locate information.
 Martha made a list of the interviews she had (dld, done).
- 5. She (spoke, spoken) to people of many ages.
- . Many (<u>knew</u>, known) a great deal about the subject.
 . While interviewing people, Martha had (took, <u>taken</u>) notes.
- 8. Diagrams were (drew, drawn) for the project

Adverbs Modify

tamples:
The eagle's descent was very steep,
(modifies "steep," an adjective)
The eagle attacked the fish quite suddenly,
(modifies "suddenly," an adverb)

Underline only the adverbs in the sentences below that modify an adjective or another adverb. **Draw** an arrow to the word that each modifies. In the blank, **write** if the modified word is an adjective or an adverb.

il ille illodilled word is diradjoelise er diradstelle	
The eagle spread its wings very wide	erb
2. It had to fly guite for to the lake.	adverb
The eagle is an extremely graceful bird.	adjective
4. It is much larger than most birds.	adjective
5. Its hooked beak is rather sharp.	adjective
6. The eagle watched the lake very carefully, _	adverb
7. A large frout is really tasty food for the eagle.	adjective
8. A beautiful rainbow trout lumped quite sudd	enly out of the wateradverb
The eagle has extremely sharp eyesight.	adverb

Answers may include:

- 1. The eagle flew extremely low over the water's surface
- 2. Then, it flew quite high into the blue summer sky.
- It landed in its nest <u>very</u> gently.

 The eagle is a <u>truly</u> majestic bird.

It swooped <u>almost</u> Instantly toward the fish.

5. It has to be <u>very</u> patient as it hunts for food.



adverb

blastoff brand-new chairperson cupboard hide-and-seek homesick ice-skate jack-of-lantem peanut butter notar bear polar bare post office seaguli snowstorm topsy-turvy town orier

Conquering Compounds

vardstick

There are three types of compound words: (1) clased compound—two separate words Joined together, that create a new meaning, and withten as one word. (2) open compound—two separate words areate a new meaning, but the two words are not Joined together; (3) hyphenated compound—two or more words, written separately but connected by a hyphen, create a new meaning.

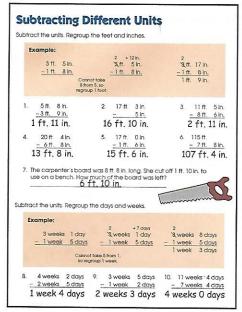
Add a word or words to each word below to form a compound word from the spelling list 1. cup cupboard 10. polar bear



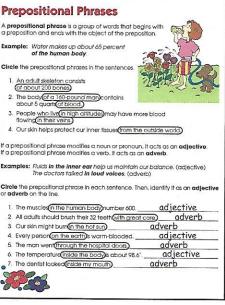
8. hide-hide-and-seek 17. zip zip code 9. brand-brand-new 18. Jack-jack-o'-lantern

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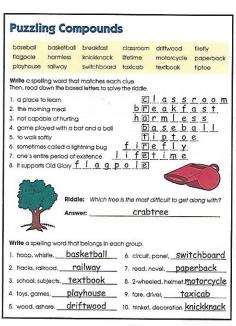
• • •	p the pounds and ounces.	
17 lb. 3 oz. - 12 lb. 5 oz.	16 + 16 oz. 13 lb. 3 oz. - 12 lb. 5 oz.	16 13.lb. 19 oz. - 12.lb. 5 oz. 4 lb. 14 oz.
1. 51b. 8 oz. - 31b. 8 oz. 2 lb, 0 oz.	2 17 lb. 3 oz - 12 lb. 11 oz. 4 lb. 8 oz.	3. 9 lb. 11 oz - 3 lb. 14 oz 5 lb. 13 oz
4. 2 lb. 5 cz. - 8 cz. 1 lb. 13 cz.	5. 1 lb. 8 oz. 9 oz. 15 oz.	6. 7 lb. 9 oz 5 lb. 7 oz
Example: 3 min. 25 sec. - 1 min. 45 sec.	2 +60 soc 3.min. 25 sec. - 1 min. 45 sec.	2 3.mln. 85 sec. - 1 mln. 45 sec. 1 mln. 40 sec.
7. 7 min. 46 sec. - 3 min. 29 sec. 4 min. 17 sec.	8. 4 mln. 47 sec. - 3 mln. 28 sec. 1 min. 19 sec.	9 9 min. 23 sec - 8 min. 51 sec 32 sec
10. 4 min. 21 sec. - 2 min. 53 sec.	11. 12 min. 19 sec. - 8 min. 42 sec.	12. 16 mln. 42 sec - 8 mln. 25 sec



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Timed Multiplication						
9	4	8	2	5	7	12
× 3 27	× 10 40	× 3 24	× 10 20	× 7 35	× 4 28	× 3 36
12	10	4	7	11	6	3
108	× 5 50	× 9 36	35	× 2 22	<u>× 6</u> 36	<u>× 2</u>
10	9	3	5	9	8	6
× 4 40	36	× 3	× 9 45	× 6 54	<u>x 5</u>	× 7 42
11	12	1	7	10	2	4
33	<u>× 5</u>	<u>x 4</u>	× 7 49	<u>× 6</u>	× 7	× 7 28
6	9	5	11	3	10	1
× 8 48	× 5 45	× 10 50	× 9 99	x 5	× 7 70	<u>x 5</u>
8	9	4	9	8	7	4
× 7	18	× 6	× 8 72	× 8 64	× 9 63	× 5 20
3	6	311	0	2	12	7
× 6	× 10 60	× 6 66	× 7 63	x 5 10	× 10 120	× 10 70
	9 × 3 / 27 12 × 9 108 10 × 4 40 11 × 3 33 48 × 7 / 56 3	9 4 ×3 ×10 27 40 12 10 ×9 ×5 108 50 10 9 ×4 40 36 11 12 ×3 ×5 33 ×5 48 ×5	9 4 8 8 3 3 27 40 24 12 10 4 9 9 108 50 36 10 9 3 11 12 1 1 12 1 1 13 1 14 15 1 15 1 15 1 15 1 15 1 15	9 4 8 2 \(\frac{x}{3}\) \(\frac{x}{10}\) \(\frac{x}{3}\) \(\frac{x}{2}\) \(\f	9 4 8 2 5 7 7 40 24 20 35 11 3 3 8 9 4 9 9 15 18 24 72 64 3 64 3 6 11 9 2	9 4 8 2 5 7 \[\frac{x_3}{27} \] \[\text{\ti}}\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tett{\text{\tet{\te

Multiplication (One-Digit Multiplier) 234 X Step 1 Multiply ones, 4 x 3 = 12 ones = | Step 1 | Multiply cones. 4 x 3 = 12 cones = 1 |
| 1 ten 2 cones. Carry the 1. |
| Step 2 | Multiply tens. 4 x 6 + 1 = 25 tens = 2 |
| 2 hundreds 5 tens. Carry the 2. |
| Step 3 | Multiply hundreds. 4 x 6 + 2 = 22 |
| 2 hundreds = 2 thousands 2 hundreds. 563 $\begin{aligned} \textbf{Step 1} & & & & & \text{Multiply ones. } 9 \times 6 = 54 \text{ ones} = \\ & & & 5 \text{ tens 4 ones. Carry the 5.} \\ & & & \text{Step 2} & & & \text{Multiply tens. } 9 \times 8 \times 5 = 77 \text{ tens.} = \\ & & & & & 7 \text{ honcreds 7 tens. Carry the 7.} \\ & & & & \text{Step 3} & & \text{Multiply hundleds. } 9 \times 0 \times 7 = \\ & & & 7 \text{ hundreds.} \end{aligned}$ 7,086 x 9 63.774 Multiply. 1. 323 2. 1,132 3. 2,264 2,584 3.945 4. 4,008 5. 2,580 888 $\frac{x}{5,328}$ 28,056 7,740 7. 4.234 589 9. 3,211 16.936 5,301 9,633 HEH

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Conjunctions

A conjunction joins words, groups of words or entire sentences. The most common conjunctions are **and**, **or**, **but**.

Examples:
Christian Huygens and Jean Cassini madiscoveries about Saturn. (Joins subjects)

The Italian astronomer Gallieo first saw Saturn's rings through a telescope, **but** the rings weren't very clear. (joins sentences)

He discovered the rings in the early 1600s **and** thought they were large satellites. (Joins predicates)

Add a conjunction to each sentence below

- Did you know that Saturn takes about 29½ Earth-years to orbit the Sun,
 or are you still looking up that fact?
- 2. Saturn and Earth have very different day lengths.
- 3. Earth's day is about 24 hours, but Saturn's is only about 101 hours.
- Saturn has 23 satellites that have been discovered, ______ and ____ Earth has only one.
- Saturn's natural satellites all have different names, <u>but</u> Earth's satellite is just called "the Moon."

Add a conjunction to each phrase below that describes Saturn.

- 1. beautiful and majestic
- but
- larger than Earth, but lighter in comparison
- shorter days than Earth <u>and</u> faster rotation
- atmosphere of mostly hydrogen ____ and
- 6. beautiful rings but not the only planet with them

Interjections and Direct Address

Strong Interjections, which show great feeling, are followed by exclamation points Mild interjections, such as now, well and yes, are set apart by commas.

A comma or commas are used to set apart the name of a person being directly spoken to, or addressed, in a sentence. This is called **direct address**.

ampies:
Ughl That soup is hortible. (strong interjection)
No. I haven't finished my homework yet, (mild interjection)
Sue, piease hand me the pencil. (clirect address)
Thank you, Jean, for your contribution. (direct address)

Add commas and exclamation points where they are needed

- Yes, we will finish the science project soon.

 Wow!! forgot that it must be completed by Friday.
- 3. Oh! I forgot that the materials for the experiment are at home.
- Jillimpting the microscope to the science lab.

 Now, leanard, it's your turn to work on the experiment.

 Will the research for the project be completed soon, Amy?

 No, Mrs. Clarke, it will take at least another week.
- 8. Yikes That was a scary experiment you did, Mark

Add commas and exclamation points where they are needed in the following sentences. In the blank, write the letter of the reason each punctuation mark is used. Some have two answe

- A. Interjection B. Direct Address
- B Lewis, will you attempt this experiment on air pressure?
- A Noll need to work on my electricity project Sam.
 B I need some help,Mr. Johnson,with my electrical circuit.
- 4. B The science lab is too crowded to set up the project, Ms. Chang.
- A Cool! would love to use the other lab.
- 6.A/B Yes, I'll try to set up the project in that room, Sarah
- 7. A Well, that solved my problem.

Articles A, an and the are special kinds of adjectives called articles Use a before singular nouns that begin with a consonant sound.

Example: a lizard Use **an** before singular nouns that begin with a vowel sound or a slient **h**. **Examples: an** insect **an** hour Use the before singular or plural nouns beginning with any letter Examples: the lizards the branch Write a, an or the in the blanks to complete the paragraph. There are nearly 3,000 different kinds of lizards. The lizard may have a tall that is much longer than its body. A lizard may even leave its tail behind when escaping from <u>an</u> enemy. <u>The</u> lizard word that means then grows a new tall. Dinosaur is a word that means "terrible lizard." But the dinosaur and the lizard are not in the same family. Most lizards hatch from ____a __ leathery egg. __ ___ type of lizard that actually changes color for many chameleon is ____a type of lizard that actually changes color for many different reasons. ____the__ chameleon may change color if it is frightened, it also changes color in response to _____a change in temperature or light. The chameleon gets close enough to shoot out its fongue to capture an insect to eat. A chameleon's tongue may be as long as its body. Uzards are truly an interesting type of animali

Complete each sentence below using a, an or the

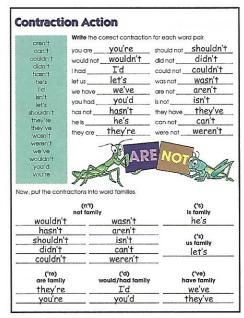
- ____An__ insect would not taste as good to me as it does to lizards!
- __ lizard could lose its tail while escaping from its enemies
- The chameleon's eyes can move in two different directions at once Some geckos make ____ a __ loud sound.
- The claws of some gecko lizards can be drawn in like a cat's.

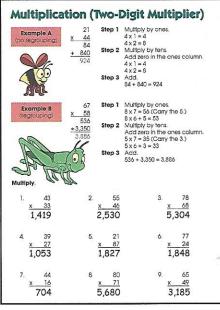
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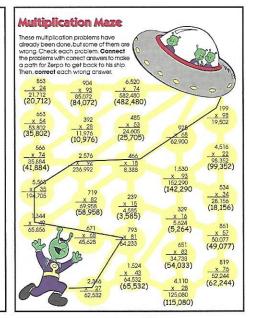
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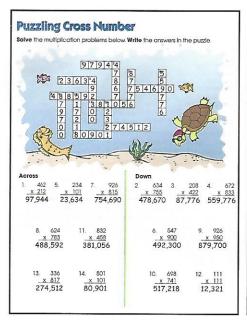


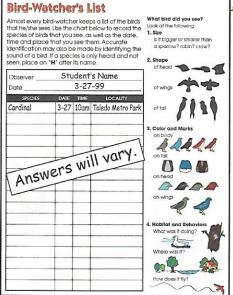




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Review of Verbs Underline the complete verb in the following sentences. Be sure to include any helping verbs. Write if the verb is an action verb or being verb and whether the main verb is regular or irregular. action regular He stepped onto the plane. being irregular 1. Black soot and brilliant diamonds are both carbon. being irregular 2. Diamonds are crystals of carbon. action regular 3. The carbon must be pressed very hard. action regular 4. It must be heated very hot at the same time action irregular 5. Miners usually find diamonds deep in the ground. being irregular 6. For centuries, most diamond mines were in India. action irregular 7. Now the biggest diamond mines are found in Africa. <u>action</u> <u>irregular</u> 8. One day In 1866, some children <u>saw</u> a pretty pebble in a river near Hopetown. South Africa. action regular 9. It looked like frosted glass. action irregular 10. The children brought it home with them. action regular 11. One day a neighbor offered money for it. action irregular 12. The children gave it to him for nothing. action irregular 13. The children did not know the value of the stone being irregular 14. It was a diamond. action irregular 15. Word about this discovery spread quickly. action regular 16. Other people hunted for diamonds nearby. action regular 17. Many of them were disappointed. action irregular 18. However, some people found dlamonds in the area. action regular 19. They were blessed with good fortune

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action regular 20. Diamonds were discovered in other parts of Africa as well.



Multiplication's Opposite

Use the multiplication problem to help solve the division problems.

42 + 7 = 642 + 6 = 7

 $1.4 \times 8 = 32$ 32 + <u>8</u> = 4 32 + <u>4</u> = 8 2. 9×9=81 81+9= 9

 $7 \times 8 = 56$ 56 + 8 = 756+ 7 = 8 4. 22 x 12 = 264 264 + 12 = 22 264 + 22 = 12 5. 37 x 19 = 703 703 + 37 = 19 703 + 19 = 37

Solve the following problems and write two related division problems for each. Sample Answers

6. 22 x 17 = 374 7. 45 x 29 = 1,305 8. 19 x 82 = 1,558 374 + 17 = 22 1,305 ÷ 45 = 29 1,558 ÷ 82 = 19 1,305 ÷ 29 = 45 1,558 + 19 = 82 $374 \div 22 = 17$

9. 671 x 63 = 42,273 10. 663 x 54 = 35,802 11. 719 x 73 = 52,487 42,273 + 63 = 671 35,802 + 663 = 54 52,487 + 73 = 719 42,273 + 671 = 63 35,802 + 54 = 663 52,487 + 719 = 73

First Quarter Test

- 1. Witte 4,507,039,005 in words, <u>four billion, five hundred</u> <u>seven million, thirty-nine thousand, five</u>
- Wilte in numerals: sixty-nine million, one hundred twelve thousand, two hundred seven. 69,112,207

3. Round 3,760 to the nearest hundred. 3,800 10 10

4. 3+7+4+5+5=0 5. 26,309 + 811 = x a= 24

x = 27,1207 lbs. 10 oz.

22 ft. 7 ln. 8. + 3ft. 6In. 26 ft. 1 in. 10. 81 -42 = 39

+ 3 lbs. 10 cz. 11 lbs. 4 cz. 11. 87 - 34 = 53

8,299,007 12. 17 min. 12 sec.

6. 59 + 19 = 78

8.345.246

x = 525

13. Provide change from \$5.00 for a \$2.59 purchase \$2.41

14. 37 x 85 = 85 x 37 15. (8 x 7) x 6 = 336

y = 12,60017. Multiply: 126 x 100 = y

18. Estimate: 79 x 9 = c c=800

19. Solve: 39 x 48 = 1,872 1,872 +48 = 39

Endangered

Many of the animals in the grassland community are very rare, and some are in danger of becoming exlinct. The American buffalo was once one of those animals, in 1899, only 551 of them remained. Today, after laws were established to protect them, there are about 15,000 buffalo in the U.S.

The black-footed ferret, which lives in the western Great Plains of North America is an endangered species. Complete the chart below and color the picture. You will need to find information from an encyclopedia or other source to help you.



size: 50-65 cm (20"-26") long color: dull yellow coat, brown head Habitat: prairies of North America

Diet: prairie dogs

leading to

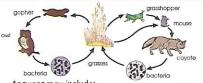
conditions drastically reduced number of prairie dogs (main food source)

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The Prairie Food Web

plex grassland communities like the prairie, the flow of food and energy cannot be described by a simple food chain. Instead, it is represented by a series of interconnected food chains called a **food web**. The many kinds of producers and consumers in the prairie community provide a wide variety of food sources.



Answers may include:

3. bacteria coyote mouse → grass →grasshopper 2. owl → gopher 4 mouse -

If there were no coyotes left in the prairie community, what would happen to the mouse population? Why? The mouse population would increase because its main predator would not be around to eat it.

If there was a decrease in the owl population, what would happen to the gopher population? Why? The gopher population would increase because fewer gophers would be eaten.

If the prairie grasses were destroyed by fire, what would happen to the coyote population? Why? The coyote population would probably decrease because its food source would be

What does it mean when we say, "The death of one species in a food web what aces it mean when we say, the ceatin or one spaces in a local weo uppets the rest of the web? It means that the food source of each species in the web will be threatened. Some species may have too much food, while others suffer from lack of food. Kinds of Sentences

There are four kinds of sentences

inere are four kinds of sentences.

A declarative sentence makes a datement.

Tuesday was a chilly day.

An Interrogative sentence ads a question.

Was Tuesday a chilly day?

An Imperative sentence gives a command or makes a request.

Be at my house at 11 o'clack.

An exclamatory sentence expresses excitement or strong feeling.

What a tertible stam!

Identify each type of sentence.

declarative 1. The Hawalian Islands are really mountaintops. 2. Were those mountains once active volcanoes? interrogative

3. Read the article in the magazine that Sid brought. imperative

What beautiful pictures that article has! <u>exclamatory</u>

5. Hawaii is made up of a chain of 132 islands in the Pacific Ocean. declarative

imperative 6. Bring your let to school tomorrow.

7. Which island has the most people living on it? interrogative

8. I just can't believe that the small Island of Oahu does! exclamatory 9. I'm astonished that the average temperature is 75° FI exclamatory

Rewrite each sentence as the type suggested in parentheses

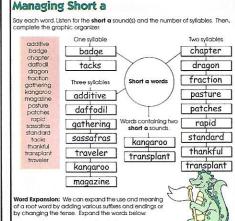
10. Were the Polynesians the first people on Hawaii? (declarative

The Polynesians were the first people on Hawaii. 11. An English explorer, Captain Cook, named the islands the "Sandwich Islands."

(Interrogative) Did the English explorer, Captain Cook, name the "Sandwich Islands"?

Will you bring me a present from Hawaii? (imperative) Bring me a present from Hawaii.

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Answers may include:

add	pack	patch
adds	packs	patches
added	packed	patched
adding	packing	patching
addition	packer	patcher
	adds added adding	adds packs added packed adding packing

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To Know and Understand







A fact is something that is proven to be true. An opinion is what so People hold differing opinions, some of which are unfair or untrue Use the code to label each statement below.

F = Fact PO = Phillip's opinion MO = Phillip's mother's opinion TO = Timothy's opinion

Black people were odd because they ate raw fish. PO

2. Timothy's nose was flat and his face was broad._

3. Timothy should have let Phillip stay in the water. MO

4. Phillip was nearly twelve years old. F 5. The cat brought bad luck. TO

6. Timothy was saving all the water for himself. PO 7. It was safer to leave Curacao than stay. TO

8. In Virginia, blacks and whites lived in different parts of town

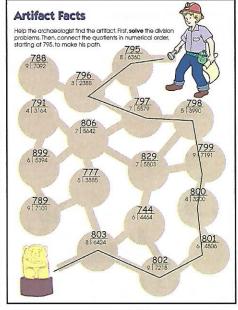
9. Timothy was strange because he didn't know his parents. PO

10. White children should not play near black workers. MO

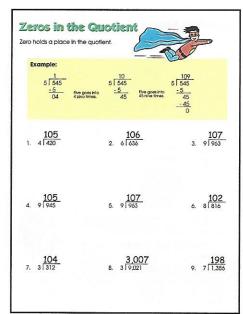
11. Timothy could be a very stubborn person. PO

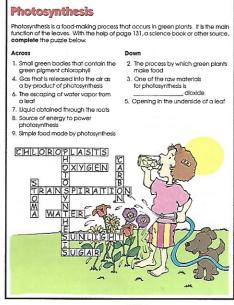
Discussion: In your neighborhood, what are some opinions people hold that are unfair? Is it fair to tease or ignore people who are different from you? Talk about how the following types of people are treated in your neighborhood.

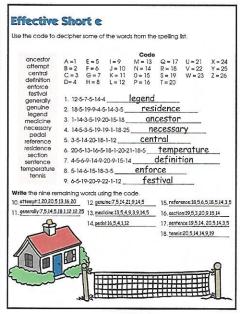
physically handicapped people
 people who speck other languages
 awkward people
 poor/irich people
 popular/unpopular people
 indicative people
 indicative people
 artractive/unattractive people
 indirective people
 indi



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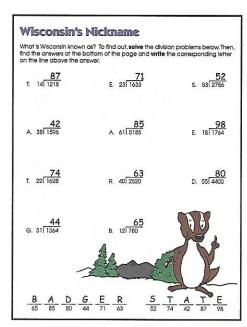
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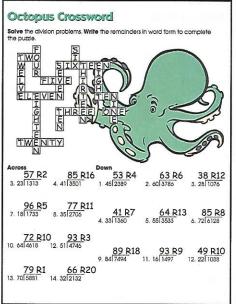
Samples include:

moose wolves bears birds Plants

needleleaf vergreen trees Aspen trees







wolves, deer, bears, many small mammals and birds maple trees Deciduous Forest prairie dogs foxes low-growing flowers grasses grouse reptiles birds monkeys insects Brazil South America flowers Tropical Rain fore: cacti Joshua trees bunchgrass small scrubs North Africa Africa Desert arctic foxes snowy owls musk-ox insects reindeer moss grasses sedges Northern Russia Asia Tundra Atlantic Ocean Pacific Ocean Indian Ocean Marine

Using a world map, a globe, an atias, an encyclopedia and other resources, complete the chart below to get a better understanding of some blomes and their characteristics.

> Western US and Canada North America

Biomes of the Earth

Coniferous Forest

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A Study of the Forest Floor

A forest habitat is generally cool, damp and shady. At first glance, it might seem that plant life is less obundant than in a pond or grastland area, but as you look more closely, you will see many kinds of species that love shade, such as horsefolis, moses, ferris and fungl. The soil of a forest floor is rich in decaying matter, its acidity will depend upon whether it contains fallen evergreen needles (which increase the acidity) or leavest from declabous trees. This rich soil is home to many kinds of animals, including earthworms, centipedes, snails and beetles

You are going to study a forest floor, either on your own or on a field trip. You will need a wire hanger. Bend it into a circle and toss it onto the ground in a forest. Answer these questions and complete the activities as you examine the living things in your own tiny forest plot.

What is the temperature inside your plot? Identify and describe all the plants that are in your plot.

Sketch the ones you cannot identify in the boxes below. Research will vary.

Look for animals. Look under any leaves, evergreen needles or twigs. Identify and describe the different animals that you find. _

Sketch the ones you cannot identify in the boxes below.

Pick up the hanger and toss it on your lawn or in a field near your home. Comp that habitat to the forest habitat.

Proofreading for Punctuation

Anna is running for class president. She has written her last campaign speech before the election but has not done overy good job of punctuating it. Read her speech write in capital eleters where needed and add correct punctuation.

Tomorrow you will choose one of five candidates as your class president. Iwant to be the one you choose. Why should you vote for me? As class president, I will collect twenty-five cents a month from every class member. The money will be used for a party at the end of the school year, I will listen to your suggestions and try to do something about them, As president of our class, I will go to teachers' meetings, I will try to have homework assignments over weekends reduced. Vote for me, I know I will make the next year the best one for you and our class. If will be a year to remember, Thank you for vour support

Anna dld not win the election, but she was a good sport. She wrote a message to klm, the winner, in the school newspaper. The editor did not proofread Anna's message, and it got published just as she wrote it. Correct Anna's work once more

I want to congratulate Kim, Iknow she will make a fine class president, Iam sorry I did not win, but I want Kim and everyone else to know I support her, Now that the election is over and the class showed their preference, let's all Join together and support Kim, Congratulations, Kim!

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Using Commas

Use commas to set off an **appositive**, a noun or phrase that explains or identifies the noun it follows. **Example:** Jack, the janitor, walked down the hall.

Jse commas to separate words or phrases in a series. Example: He ate the apple, the peach and the plum

Use commas after **introductory** words or phrases. **Examples:** Yes, i'm going to the fair. By the way, did you bring a camera?

Use commas to set off a **noun of address**, the name of the person being addressed or spoken to. **Example:** Caroline, will you come with me?

Use commas to set off **Interrupting** words or phrases. **Example**: He was, as you know, an actor before he was elected.

Add commas to the sentences where they are needed. On each line, explain why you added the comma by writing appositive, series, introductory, noun of address or interrupting.

- Maryanne, the new girl in school is a very good cook. appositive.
- My favorite snacks are red apples, pretzels and popcorn. Series interrupting 3. My skills, however, do not include cooking. __
- noun of address I know.Sally.that you love to cook.
- 5. That was, in my opinion, the best meal ever served. <u>interrupting</u> 6. After they finished the books, Tom and Larry wrote the re-introductory
- 7. Thomas Edison, an inventor, had failures before each succe appositive
- 8. Pete, our best soccer player, won't be here for the blg garr appositive
- No, I won't be seeing the movie. ______introductory
- 10. The coating on the pecans was sweet, sugary and crisp. <u>Series</u>
 11. That Is, If I'm not mistaken, my yellow and green penall_<u>interrupting</u>
- 12. Sam, would you please pass me my pen? <u>noun of address</u>

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ltty-Bitty i

oltizen difference difficulties exit exit
flation
hippopotamus
individual
instrument
interesting
kitchen listening miniature niserable officer

Write the spelling word that best completes each sentence. 1. We received a shipment of new books for our 2. Our family usually eats dinner in the kitchen

 When we subtract one number from another, we find the <u>difference</u>. 4. A story which is not true is <u>fiction</u>

- We all have special tolents and gifts because we are <u>INDIVIDUAL</u> people.
 Pay close attention by <u>listening</u> carefully to the cliections.
- 7. The <u>prisoner</u> was released on parole 8. A violin is considered a stringed instrument
- My sister collects <u>miniature</u> teapots. Friends can be especially helpful when one is experiencing <u>difficulties</u>.
- What kinds of <u>activities</u> do you do after school? 12. Find the <u>exit</u> sign so we can leave the building.
- That move had a very interesting plot.
 The principal is a friend to both teachers and students.
- 15. As a <u>citizen</u> of the U.S., I respect the
- American flag.

 16. The police <u>officer</u> spoke kindly to the little child. 17. The head cold made my brother feet <u>miserable</u>
 18. It would be difficult to have <u>chippopotamus</u>for a pet.

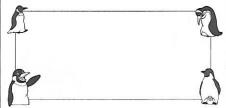
ard below is hidden in a list word. Write that spelling word on the blank. 1. on fiction/prisoner 4. kit kitchen instrument/shipment 2. son <u>prisoner</u> 5. pal <u>principal</u> 8. mlser <u>miserable</u>

3. act_activities 6. pot hippopotamus 9. ties difficulties page 140

Mr. Popper's Penguins: Answers may include:

- 1. Where do penguins live? Southern Hemisphere (Antarctic)
- 2. How many species of penguins are there? ____ Name two types: Emperor penguin and Rockhopper
- Describe the general appearance of penguins, including body covering, height and weight ranges. <u>White breast</u>, <u>black back and head</u> short legs, upright posture, wings like flippers, up to 4 feet in height.
- 4. How do penge walk awkwardly on land, swim fast in water
- 5. What do peng fish, cuttlefish, crustaceans, small sea animals
 6. Describe penguins' breeding habits: They lay eggs in rookeries.
- Describe a newly hatched penguin. <u>little balls of sooty, gray</u>

Draw an emperor penguin in the space below



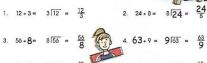
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Division in Three Ways

The equation 12 + 3 can also be written as $3\overline{12}$ or $\frac{12}{3}$

Write each equation in the three forms The first one has been done for you.

 $42 + 7 = 7 \boxed{42} = \frac{42}{7}$



5. 42+6= 6 42 = 42 6 6. $15 + 5 = 5 \overline{15} = \frac{15}{5}$

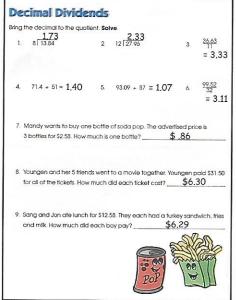
10. 440 + 20 = <u>22</u>

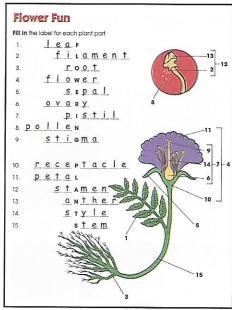
12 12 780 11. 440 = 22

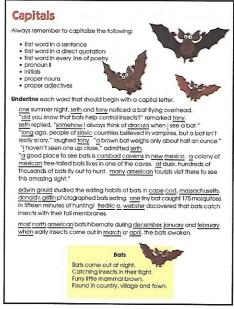
13. 650 + 13 = 50 14. $\frac{720}{15} = 48$



8. 72+9= 9172 = 72





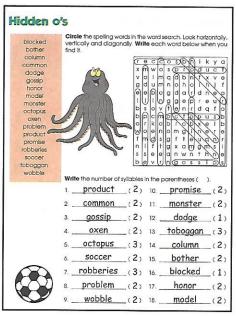


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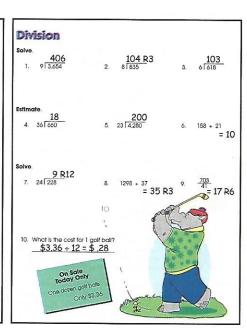
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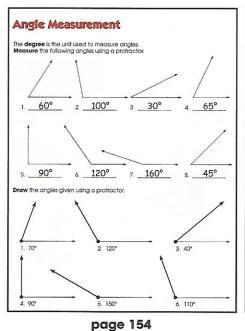
Х	0	1	2	3	4	5	6	7	8	9	10	11	1:
0	0	0	0	0	0	0	0	0	0	0	0	0	C
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	2
3	0	3	6	9	12	15	18	21	24	27	30	33	3
4	0	4	8	12	16	20	24	28	32	36	40	44	4
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	7
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	90
9	0	9	18	27	36	45	54	63	72	81	90	99	10
10	0	10	20	30	40	50	60	70	80	90	100	110	12
11	0	11	22	33	44	55	66	77	88	99	110	121	13
12	0	12	24	36	48	60	72	84	96	108	120	132	14
												TO TO	

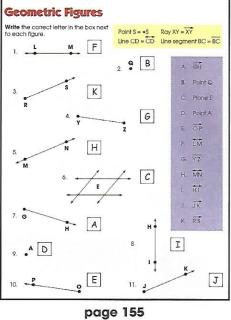


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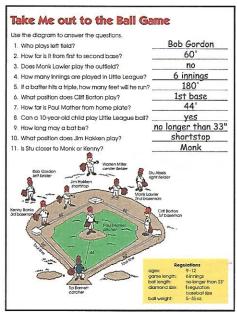
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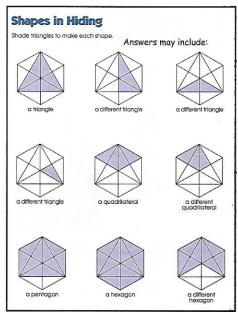








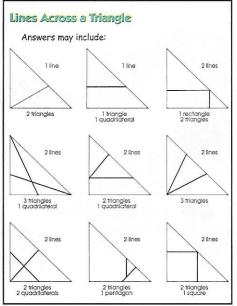




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Plant Movements After a seed germinates and anchors litself by its roots in one place, it can still show some movement. These movements are called **troptsms**. Troptsms are a plant's response to stillmull such as light, gravity and water. **Geotropism**, **hydrotropism** and **phototropism** are three troptsms that are easily demonstrated with bean seedlings. Research these three types of troptsms using an encyclopedia, selence textbook or other since. Shirty the nictures of the three experiments. Name the kind of tropis. **Sample answers:** Kind of Tropism: phototropism What happened? When the bottle tipped over, the plant started to grow up toward the light. 本 Kind of Tropism: geotropism What happened? Plant moved toward heat source. Kind of Tropism <u>hydrotropism</u> What happened? Plant moved toward water source.

What a Trip! Read the paragraphs about Meriwether Lewis and William Clark's Journey to the Pacific Coast. Then, **plot** their journey on the map below. Lewis and Clark led the first expedition across our country's vast northwestern wilderness. t began in 1804 and lasted more than two years. The expedition covered almost 7,700 miles. President Thomas Jefferson chase Lew's to lead the expectition. Then, Jefferson and Lew's selected Clark to be second in command. Lew's and Clark and their group of about 45 people set out on May 14, 1804, and traveled up the Missauri River. In October, they reached a village of friendly Mandan Indians in what is now North Dakota. They built Fort Mondan there and stayed for the winter. On April 17, 1805, the journey resumed. By summer, the group made the hardest part of the trip—they crossed the Rocky Mountains. This took them about a month. From there, they reached the Claarvater River in what Is now (daho. They built new cances and then paddled toward the Columbia River which they reached in October. The expedition continued on in hopes of reaching the Pacific Coast. They utilimately succeeded, arriving at the coast in November of 1805.

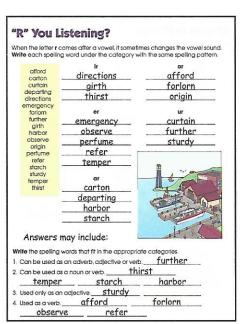


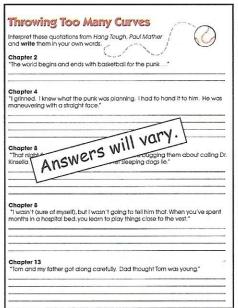
Label the areas that are now states through which Lewis and Clark Journeyed. Label the rivers on which the expedition traveled. Label the Rocky Mountains. Label the Pacific Ocean.

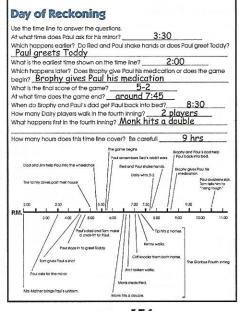
Label the Pacific Ocean.
 Put a star where the group met the Mandan Indians.

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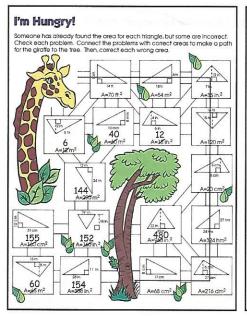


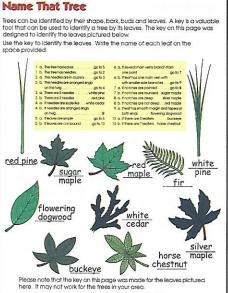
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Go to p. 382 for answer 5 to pages 175 4 176 -These answers are not correct





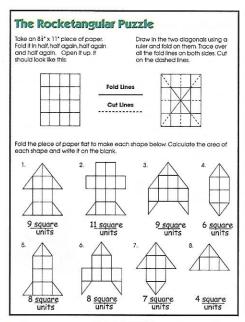
Dynamic Digraphs Consonant digraphs consist of two letters that represent one sound. Consonant digraphs may be found anywhere in a word, The digraph sh usually has the sound heard in sharp and fish. The digraph wh usually has the sound heard in white and wheel. athlete The digraph th has two common sounds: th as in this and th as in thin. channel chauffeur chiffon The digraph ch has three different sounds: ch as in chair, ch (like k) as in chorus and ch (like sh) as in chef. chocolate chocolate choir chrome exchange radish sheriff shovel Thursday whether whiskers Answers may include: Write each spelling word under the appropriate category. ch as in reach sh as in dish channel radish chocolate sheriff exchange shovel chief wish th as in thimble whether Thursday although whiskers athlete another whisper birth whether whip with mother ch as in chorus ch as in chef choir chauffer additional word for each category and write it on the dotted line. chrome chiffon chord chalet

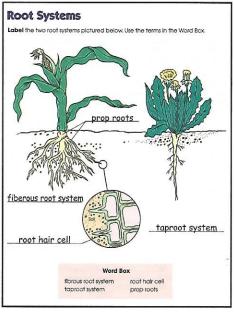
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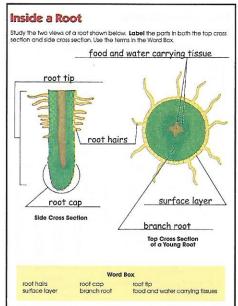
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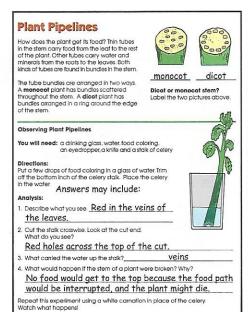




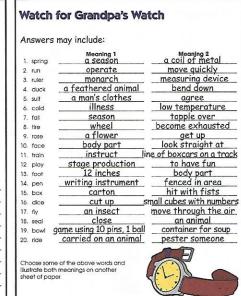
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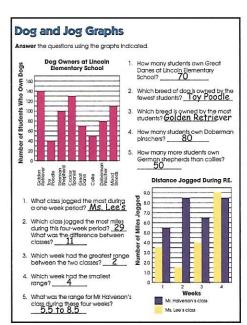




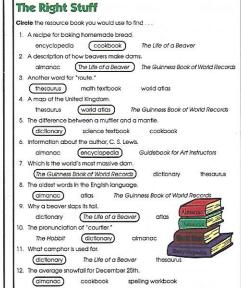


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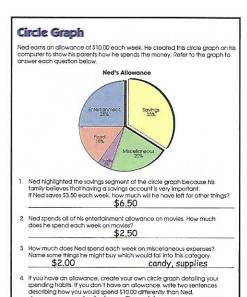


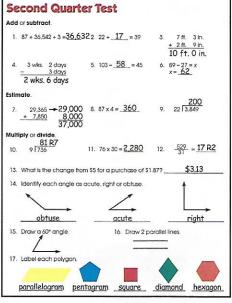


Don't confuse verbs that have similar mea	nings.
Lay means put or place. Lie means rest or recline.	Teach means show how. Learn means find out.
Set means put something somewhere. Sit means sit down.	Lend means give to someone. Borrow means get from someone.
Let means allow. Leave means allow to remain.	
Write the correct verb on each blank belo	W.
"Mark, did you <u>Set</u> (set, sit) th "Yes, David. I was going to <u>leave</u> was heavy."	e saddle on the fence?" David asked. (let, leave) it in the barn, but It
Did you <u>learn</u> (teach, learn) how back yet?" Mark asked.	to throw the saddle onto your horse's
"Yes, and then I needed to <u>lie</u> (land) it was going to <u>lend</u> (lend, born trying to <u>learn</u> (teach, learn) how "Will you <u>let</u> (let, leave) me	row) you a hand, but I was too busy v to rope," David remarked.
tomorrow morning?" Mark inquired. "Sure, Mark, I'm going to just <u>Sit</u> tomorrow morning," David responded.	_ (set, sit) under a tree and read a book
Write the correct verb from the parenthes	es for each sentence.
1. Tell your dog to lie (lay, lie) 2. Please, lay (lay, lie) that sa Set (set, sit) the bridle	ddle down in front of the stall and
	eale of hay and rest your tired legs. e) me wear your boots tomorrow?
5. Don't eqve (let, leave)	



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POR STANDARD 1. I am made of sapwood and heartwood. What am I? 2. I am a seed with two cotyledons. What kind of seed am 1? _____dicot A monocot has only one of me. What am 1? cotyledon Every year, I produce a new layer of bark. What am I? cambium X Y L E M)T A L I T S I P K T Y L T H M S V H G H I B A A S A L E T I T O C A A N M S C R I am the female reproductive part of the flower. What am I?

pistil 7. I am the male reproductive part of the plant. What am I? _____Stamen 8. We absorb water and minerals from the soil. What are we? ____roots I am a leaf with many blades.
 What kind of leaf am !? Compound Animals and wind can disperse us.
 What are we? <u>SeedS</u> My food is stored inside two cotyledons.
 What am I? _____embryo 12. I carry water from the roots to the leaves.
What am I? ______Stem Can you find other plant terms hidden in the puzzle?

Find the answers to the riddles in the word search. Circle them and write them on the blanks provided. Use pages 131, 144 and 177 to help you. Hint: Words may be found horizontally, vertically, diagonally and backwards.

What Am I?

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Answers may include: I would save more money.

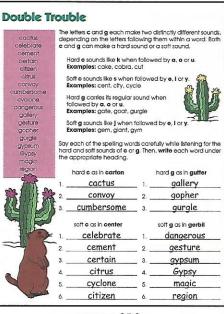
I would spend less on food.

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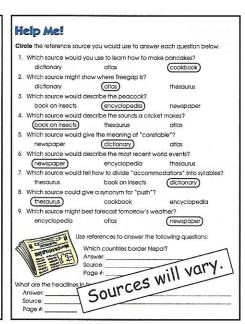
page 204



How's It Said?



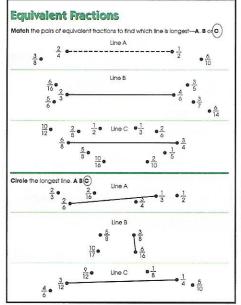
Circle the word which best describes the mood or tone of the person speaking When Winnie's grandmother heard the little melody in the woods, she said, "That's Itl That's the elf music i told you about." resentful eager Winnle spied on Jesse in the woods and watched as he drank from the spring. When he saw her, Jesse cried, "What're you doing here?" stern hopeless Joyful When Jesse told her not to drink from the spring, Winnle questioned, "Why not? It's mine, anyway, if it's in the wood," (stubborn) Winnie cried when she realized she was being kidnapped. Seeing this, Mae exclaimed, "Please don't cry, child! We're not bad people, truly we're not." (dismayed) reluctant angry When Winnie was calmed, everyone relaxed. Jesse began to explain the family's story. "We're friends, we really are. But you got to help us." persuasive happy (helpless) Miles recalled how his family reacted when he clidn't age. "My wife, she left me. She went away and she took the children with her." stern (sad) Answers may include: ... you were angry at your parents for not letting you go outside? It's not fair. Everyone else is outside. ... you were hopelessly unprepared for your spelling test? I don't know how well I did.



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Fussing About f The f sound can be made using the following letter combinations: autograph cough enough familiar foreign f as in afternoon gh as in rough ff as in staff ph as in photo Write each spelling word in the appropriate category. frequent furniture geography laughter muffler familiar affection foreign muffler frequent raffle paragraph philosophy physical raffle furniture stuff slough stuff cough autograph enough geography tough laughter paragraph philosophy slough physical tough Use the spelling words to complete the puzzle. Some of the letters are already given. 1 TOUGH OUGH

A Whale of an Activity

Some words may be used as either nouns or verbs

Example: Fish
Fish are good to eat. (noun)
We fish every Saturday in the summer (verb)

Read the paragraphs below. Decide if each bold word is
used as a noun or as a verb. Write your answers on the lines below.

A whole is a mammal that does not live on land, it would be impossible

A whale is a mammal that does not live on Indnd. It would be impossible to Indn a whale with radinary fishing gear. A whale would not attack a boot unless the whale was injured. However, an attack by an injured whale could be very dangerous. Whales can dive in the sea to a depth of more than one-half of a mile. Their powerful talls make such a dive possible. Whales do not light among themselves. A light with a whale would be a losing battlet. The skeleton of a whale is not strong enough to support the whale's weight. Water provides the extra support needed to hold up such huge bodies. Wholes with a cross entire oceans searching for food. Such a long swim is not unusual for a whole.

Water provides the extra support needed to hold up such huge bodies. Wholes swim across entire oceans searching for food. Such a long swim is not unusual for a whole. Wholes hunt for wholes in many countries of the world. In the old days, saying ships might stay at sea for 2 to 3 years on a whole hunt. Men would race to get into small boats, it was a race to see who could get to the whole first. Now, whaling boats may eath just a few wholes each year. Their catch may not include mother wholes with calves. Wholes have had to part with old ways. They may no longer catch wholes in every part of the ocean.

1	noun	8	noun	15	verb
2	verb	9	verb	16	noun
3	verb	10	noun	17	verb
4	noun	11	verb	18.	noun
5	verb	12	noun	19.	verb
6	noun	13.	verb	20.	noun
7	verb	14.	noun		

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90	cause
Ren	nember:
he	cause is the reason for the action or why something happened. The effect is
	result of the action
vhc	at actually happened.
Und	erline the causes.
,	Because she knew her face so well, Mae didn't need a mirror.
2	Because the Tucks had drunk water from the spring, they could not age.
	Mae went into town, because her two boys were returning home.
4.	The Tucks kidnapped Winnie, because she had discovered the spring.
5.	Because Miles and Winnie brought no fish home for breakfast, the Tucks had
	flapjacks Instead.
Circ	sle the effects.
1 1	The Tuck boys never worked in the same place for long because their employers
	would become suspicious.
	Because the stronger wished to obtain the property in the woods he offered
	to return Winnie to her parents.)
	Because the stranger planned to sell the secret (Mae clubbed him.)
4.	The constable couldn't charge the Tucks with kidnapping because Winnie
	declared that she had gone with them of her own free will.
5, 1	Winnle's grandmother ordered her to enter the house soon because the heat was intense that day.
	was intense that day.
Who	at do you think caused the most problems in the story?
	and a year mank disasted the most presiding at the story?
a.	The Tucks' discovery of the spring
	The stranger's greed :11 VQ1 7 ·]
	Winnie's discovery of Jesse Tuck
C.	
C.	Other:
C.	The flucks' discovery of the spring The stronger's greed Winnle's discovery of Jesse Tuck Other: Answers Will vary.

Conversion	i	1	
Find the number of un fraction described.	nits in each	MATTER!	1
1. If there are 12 eggs	s in a dozen, how	6. If there are 1,00	
many eggs are in		kliometer, how r	nany meters
1 dozen?	6	are In	100
dozen?	3	to kllometer?	100
dozen?	4	½ kllometer?	500
		kilometer?	250
2. If there are 100 cer			ays in most months.
a meter, how man		how many days	
1 meter?	25	i month?	
1 meter?	10	i month?	
is meter?	10		
3. If there are 16 oun	bruon a nound	to month?	
how many ounces		8. If there are 24 h	ours in a day, how
½ pound?		many hours are	
pound?		1 day?	8
pound?	6	2 day?	
a pourtur		day?	
4. If there are 4 quarts		125000000000000000000000000000000000000	
many quarts are Ir			ches in a yard, how
½ gallon?	2	many Inches are	
digation?	1	3 yard?	
dallon?	3	yard?	
		½ yard?	18
5. If there are 60 seco		10 1/11 0 000	
how many second		 If there are 2,000 how many pour 	
½ minute?		ton?	
minute?			
minute?	45	a ton?	
4 HINIUIET			

ballet castle crumb	Many words contain one of each spelling word aloud, appropriate slient letter comore than one category.)	Write each	h spelling word in the
doubt	silent w		slient k
knack	1. wreck	1.	knack
knight	2. wren		knight
known		3.	100000000000000000000000000000000000000
knuckle listen	4. wrestle		
plumber			
soften	silent gh		sllent b
thumb	1. height	1	crumb
weight wreck	2. weight	2.	doubt
wreck	3. knight	3.	plumber
wrench			thumb
wrestle			
		slient t	1 100
Very -	1. <u>ballet</u>	4	soften
	2. castle	5	wrestle
A	3. listen		
	Answer the following que What	estions wit	
Shhh	1. is a part of a tree?	-	limb
Shin	2. followed Mary to sch	nool?	lamb
	3. means no feeling?	10-1	numb
	4. smooths your hair in	place?	comb
Company of the last of the las	5. is a destructive force		listening

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11. Angel's mean words cut through Charlene like glass. Simile

metaphor

12. Mr. Bacon was a fairy godmother to Mattle.

complete the following similes. Answers may include:

2. Hannibal's teeth were like <u>a vampire's</u>.
3. Toni's mind worked fast like <u>a well oiled machine</u>

13. The gingko tree's leaves were like fans.

1. Matt was as artistic as Van Gogh

4. Mattle was as sad as a clown.

5. Mrs. Stamps was like Sugar

A Trip to the Ocean

Maria's giris' club earned enough money from their cookie sale to go on a camping trip by the ocean. Read about their trip. Write your answers in compl

The bus started with 6½ gallons of gasoline. When the driver added 9½ more gallons of gasoline, how much gasoline did the bus have in it?
There were 16 gallons of gas in the bus,

The gifs and their leaders stopped for a picnic after driving 58 i miles. After the picnic, they drove another 431 miles before reaching the ocean. How far were they from home?

They were 102 miles from home.

Before leaving home, the girs made sandwiches for their lunch. They had 71 tuns sandwiches, 41 cheese sandwiches, 21 peanut butter sandwiches and 51 bet sandwiches two many total sandwiches did they bring?

They brought 20 sandwiches,

The leader cut a watermelon into 16 slices for lunch. The glrls ate 8 of the slices. They ate is or i of the melon.

When they arrived, they took $1\frac{1}{2}$ hours to set up the tents. They spent another $\frac{3}{2}$ hour getting their bedrolls ready. How long did they work before they could play in the ocean? They worked 20 hours.

The gifs swam and played in the water for 1½ hours. Then, they sat in the sun for ½ hour. How many hours did they play and sunbathe?,

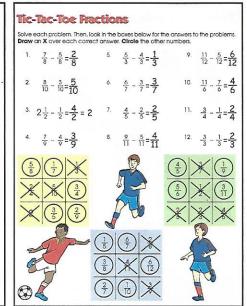
They played and sunbathed for 2½ hours.

After dinner, they had a compfire. First, they sang for $1\frac{1}{2}$ hours. Then, they told ghost states for $\frac{1}{2}$ hours. If they put out the fire and went to sleep at $10.30\,PM$, what time did they begin the compfire?

They began the campfire at $8:30\,P.M$,

The next morning, it of the girls went fishing. The rest of the girls hunted for shells, if there were 8 girls gitgether, how many hunted for shells. Tive hunted for shells.

How many went fishing? Ihree went fishing.



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Plentiful Plurals

adventures arches blouses classes compasses couches decisions eyelashes inches indexes

larynxes syllables

toothbrushe

The plural form of most words is formed by adding s to the singular form. **Example:** horse + s = horses

Singular words ending in \mathbf{x} , \mathbf{ss} , \mathbf{sh} or \mathbf{ch} usually form the plural by adding \mathbf{es} to the singular. **Examples:** tax + $\mathbf{es} = \mathbf{taxes}$ church + $\mathbf{es} = \mathbf{churches}$

Write the singular form of each spelling word.

1.	telescope	s telescope	10.	Indexes	index
2	Inches	inch	11.	walruses	walrus
3.	adventure	es adventure	12.	compasses	compass
4.	blouses_	blouse	13.	eyelashes_	eyelash
5.	toothbru	toothbrush	14.	couches_	couch
6.	arches_	arch	15.	larynxes	larynx
7.	decisions	decision	16.	dresses	dress
8.	erasers	eraser	17.	accounts_	account
0	alarene	class	10	gullables	cylloble



ad the following clues. Write the word that matches

these protect your eye	s eyelashes
used to indicate direct	ere en en Seurementer en
3. used to clean teeth	toothbrush
4. used to view the heave	ens telescope
	inches

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Adding Unlike Fractions Solve the problems. Shade in your answers on the pizzas below to show which pieces have been eaten. + 6 7 12 2 3 10

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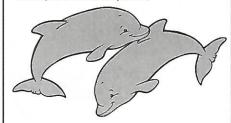
Dolphins

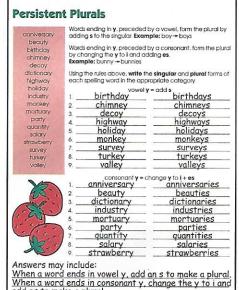
Underline the topic sentence of each paragraph. Add the missing punctuation.

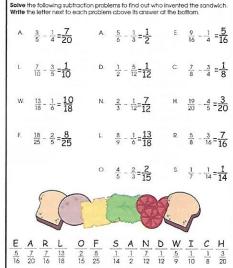
Dolphins are among the most intelligent animals on Earth. They are playful as well as smart, and are easily trained for zoo and aquarium shows. They jump through hoops and fetch and grab objects from the trainer's hands. Dolphins communicate with each other in a variety of ways using clicking, whistling and slapping sounds.

Dolphins can locate objects easily under the water through a system called echolocation. This is like a built-in sonar system. The dolphin makes a series of clicking sounds, then listens for the sounds as echoes bounce back from

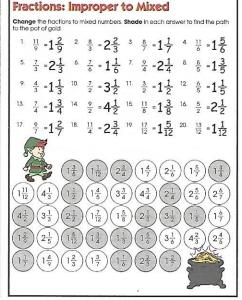
Many dolphins are caught and killed. These friendly mammals are killed by hunters of several nations for their meat and oils and are often caught in fishing nets intended to catch tuna, cod and other fish. Steps have been taken to try to limit the number of dolphins killed.







Sandwich Solutions



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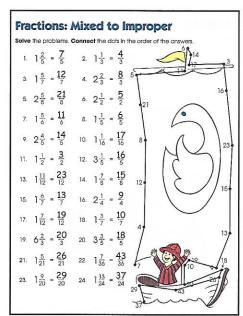
add es to make a plural.

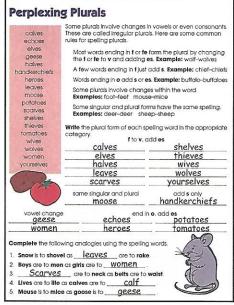
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Go to p. 382a for the answers to p. 255



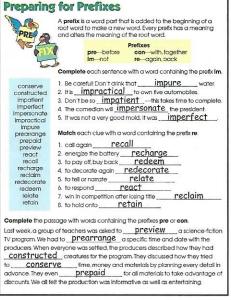


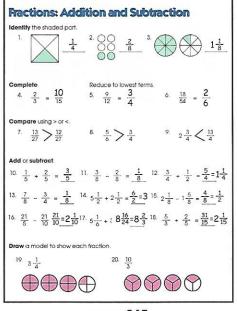
River System Using resource materials and the terms below, label the parts of the river system Write a description of each word in the space provided. tributary rapids waterfall flood plain oxbow lake delta Answers may include: aterfall water meander the twisting rapids swiftly falling from a course of a river moving water, high place usually over rocks or stream the mouth of oxbow <u>a u-shaped</u> lake formed when flood plain low lying land prone to flooding a stream cuts off a meander tributary a stream lake a body of that flows into a water surrounded larger river by land

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This diagram is not) the answer key









Swimming in the sea is easier than swimming in a look. This is because seawater contains solly material that helps a swimmer float. Three-fourths of a sea's soilty material is the same as the soll were contains 52% chlorine, 30.5% sodium, 7.6% sulfate, 3.7% magnesium, 1.2% calcium, 1.1% potassum and other elements. All these ingredients are found in rocks and soil around the world. When seawater evaporates, most of the soil is left behind. When it rains, the rivers continually wash in more soil and rocks (and, therefore, more soil), but the seas do not get more soily, because the soil gets trapped with the must and sand that builds up on the seaffour. Did you know that if all the stall was taken out of the seas and spread over the land surface of Earth, there would be a layer 800 feet thick? To learn more about evaporation, by the experiment below.

Experiment: 1. Fill the pie pan halfway with water. 2. Pour as much sail in the water as will alsolve. Sitr with the teaspoon. 3. Place the sail water in a warm, dry place until

Answers may include: Predict:

- What do you think will happen to the water? It will evaporate. How long do you think this will take? 1 day
- 3. What do you think will happen to the sait? It will still be there.

Answers will vary:

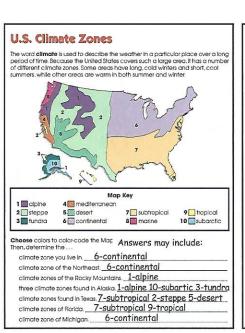
- On another sheet of paper, make a cnarr to record the daily water level.
- What has happened to the water? <u>It evaporated.</u>
- 3. How long did it take? Answers will vary (2,3,4 days).

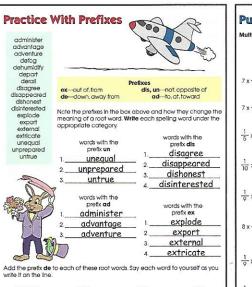
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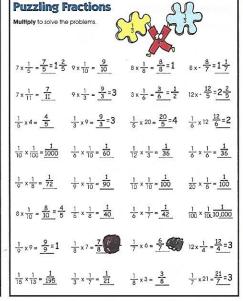
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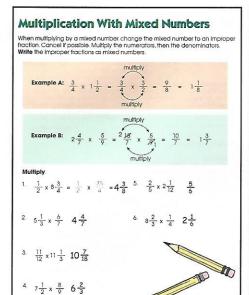
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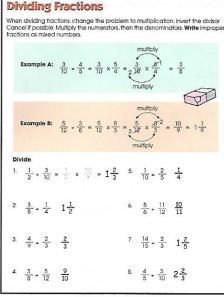
defog

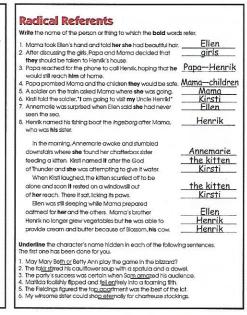
derail

depart

dehumidify



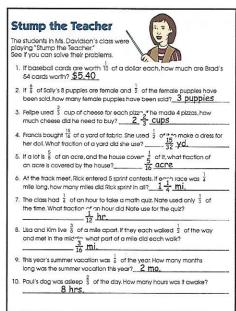


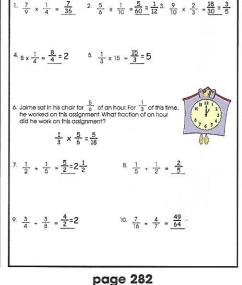


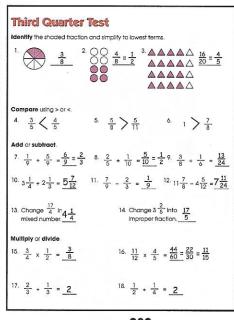
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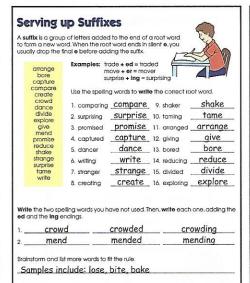
Fractions: Multiplication and Division

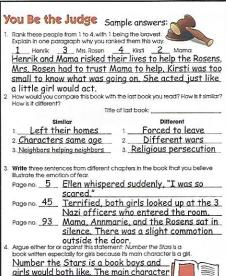


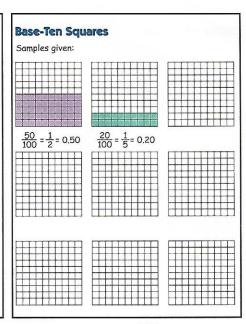




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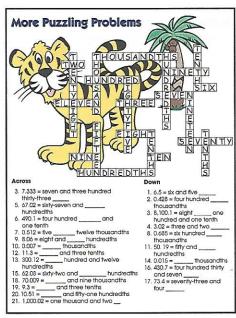
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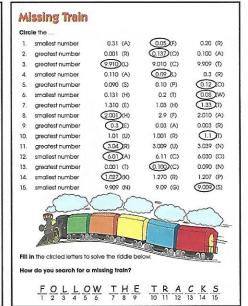
may be a girl, but the events happen to

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Friction is the force that keeps some things from moving or slows them down when they do move. Friction is present when surfaces touch one another. The amount of friction depends on the kinds of materials that are touching, how smooth their surfaces are and how much force presses the two surfaces together



You will need: string, a screw eye, a block of wood and a spring balance

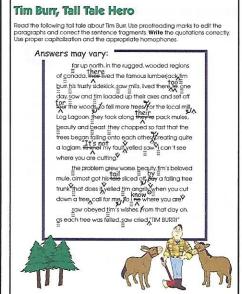
Experiment:

You will measure the amount of force needed to evercome the friction created by the block of wood on different surfaces. You will be measuring in Newtons (N). The greater the monut of friction created by a surface, the greater the force needed to evercome it. Screw the screw eye into the block. Attach one end of the string to the screw eye on the block of wood and the other to the hook on the spring balance. Put the block on its side on a smooth tabletop and pull evenly on your spring balance until the block moves. Keep pulling so that the block of wood moves at the same speed across the table to reach surface. Your person can take a reading from the spring balance. Write this quantily in the chart. Repeat the procedure for each surface listed. Hith When using marbles, place books around the area to keep them from scattering.

Surface	Amount of Force Needed to Overcome Friction (N)
Aluminum foll	3 N
Marbles	1 N
Sandpaper	5N
Smooth tabletop	2 N

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Simplifying Suffixes When adding a suffix beginning with a vowel to a word that ends in a consonant + y, change the y to I before adding the suffix. An exception to this rule occurs when adding the suffix Ing. Examples: worry + es = worrie dry + ing = drying apply boundary canary century city company country dairy enemy enemy factory grocery hobby Write the correct spelling word with an appropriate suffix on each line. on each line. 1. Joined In matrimony married 2. USA and Mexico are examples of these countries 3. felt sorry for pitied - Note that answering replying food purchases groceries to be concerned worried food purchases 7. one's adversaries enemies places of manufacturing petitioned applied factories 10. more than one period of 100 years centuries 11. Easter flowers lilles 12. fun things done in free time hobbies



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canaries

companies

13. milk processors dairies
14. little yellow birds canarie 14. little yearon CITIES
15. urban areas CITIES memories

17. borders boundaries
18. people work for these

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Decimal Delight

Kooky Claude Clod, the cafeteria cook, has some strange ideas about cooking. He does not understand fractions—only decimals. Help Claude convert these measurements to decimals so he can get cooking!

Mix together and sauté: ឆ្នុំ cup minced cat whiskers cup crushed snalls cup toothpaste tablespoon vinegar Simmer 93 1 days. Gradually fold in: teaspoon soot cup motor oil tablespoon lemon Juice cup chopped polson ky 61 rotten eggs Brew for 1,50025 years. Enjoy!

Mix together and sauté:

0.45 cup minced cat whiskers 0.875 cup crushed snalls 0.60 cup toothpaste

0.75 tablespoon vinegar 0.44 cup plg slop

Simmer 93.50 days.



Gradually fold in:

0.20 teaspoon soot 0.375 cup motor oll 0.90 tablespoon lemon juice 0,55 cup chopped polson ivy 6.25 rotten eggs

Brew 1 1,500.96 s. Enjoyl

Decimals

1. Write out 36.124 in words. thirty-six and one hundred twenty four thousandths
2. Write two hundred thirty-seven and twenty-six hundredths in nume

237.26 3. Use > or < to indicate which decimal fraction is greater.

3.147____3.205 3.06 3.059

4. Round 87.658 to the negrest whole number. Round 87.658 to the necrest tenth. 87.7 87.66 6. Round 87.658 to the nearest hundredth

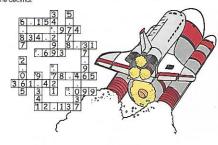
 $\frac{5}{10} = \frac{1}{2}$ 7. Write 0.5 as a fraction in lowest term:

 $7\frac{85}{100} = \frac{17}{20} = 7\frac{17}{20}$ 9. Write 7.85 as a fraction in lowest terms. 10. Draw a model of 0.3

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Blast Off!

Hint: Decimal points take up their own square. Do not use a zero before



- 1.256 - 542.13 .974 834,20 6.154 6. 8.538 - 0.228 8. 3.099 - 2.406

8.31 .693 12.124.107 - 45.642 14.465.52 - 104.1 78.465 361.42

15.0.732 -- 0.633 16. 67.549 - 55.412 12,137

34,229 5,778 6.87

7. 22.05 + 15.91 9. 2.057 + 0.008 2.065 37.96 10. 0.531 + .19 11. 7.852 + 1.489

9.341 .721 13. 3.012 + 1.025

4.037

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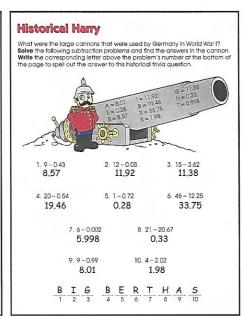
Roll it harder. Does it come all the way back? no Rolls farther than the ramp bottom.

Why do you think the can comes back? Because the rubber band is unwinding.
Can you make the can roll farther (aster) or longer? Winding the band tighter.

What can you change about the can's design? Answer will vary.

Try your new design. How does it work? Answer will vary,

Vital Vowel Digraphs Vowel Digraph are two vowels together that make only one vowel sound. Generally the vowel digraphs below carry the following sounds: ee, ea = long e as in peep flea ue = oo as in true oa, oe = long o as in moan blueprint boasted bread Sometimes the vowel digraph ea corries the short e sound as in pleas breath agreement Write each spelling word in the appropriate category. Write the number of syllables in each word in flue glued groan increase leather needless the parentheses. disagreement(4) beaten (2) feelings (2) ease (2) needless (2) eastern (2) peek (1) increase (2) reason (2) Elephant ea Words approach (2) bread (1) blueprint (2) boasted (2) breath _(1) flue aroan (1)_ leather (2) glued _(1) the spelling word that is a compound. blueprint Write the eight spelling words that contain either a prefix or a suffix.

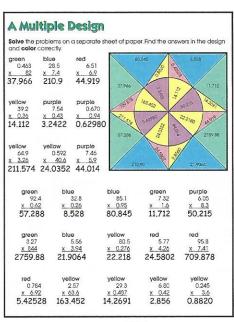


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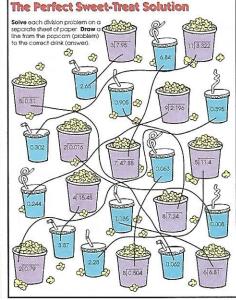
beaten needless eastern glued

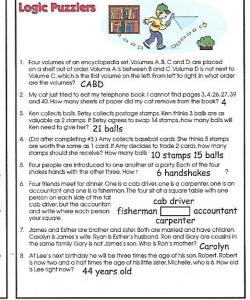
disagreement boasted feelings increase





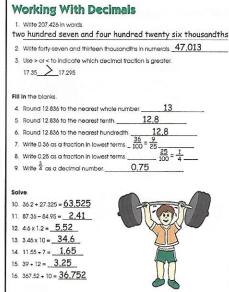
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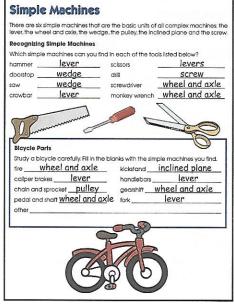




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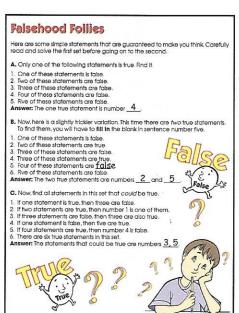


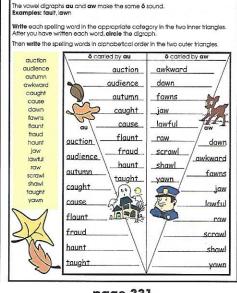
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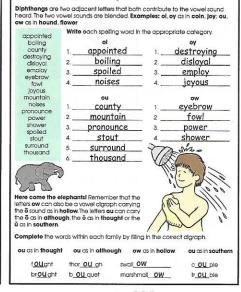
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Very Important Digraphs







Dynamic Diphthongs

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Get the Facts, Max

Read the paragraphs to answer the questions below.

The Islands of Aruba, Bonaire and Curação, sometimes known as the ABC Islands, are part of the Netherlands Antilles. They lie 50 miles north off the coast of Venezuela. Three more Islands, St. Eustatius, Saba and St. Marlin (the northern half of which belongs to France), are approximately 500 miles northeast of the ABC Islands.

Until 1949, the Islands were known as the Dutch West Indies or Curação.

Territory, In 1986, Aruba separated to become a self-governing part of the

Netherlands Reatim.

On the Island of Curaçao, most food is imported. Because it is so rocky, little farming is possible. The Island is the largest and most heavily populated of the Netherlands Antilles. Its oil refineries, among the largest in the world, give its people a relatively high standard of thing. Today, most people of Curaçao work in the shipping, refining or tourist Industry.

Netherlands Antilles—Other Facts

Area:	
Aruba	75 square miles
Bonaire	111 square miles
Curação	171 square miles
Saba	5 square miles
St. Eustatius	11 square miles
St. Martin	13 square miles

Capital: Willemstad Major Languages: Dutch Paplamento (a mixture of Spanish, Dutch, Portuguese, Carlb and English), English, Spanish

 Name the capital of the Netherlands Antilles. Willemstad 2. What Industry gives the people a high standard of living? oil refinery

land is too rocky for farming 5. Why must food be imported to 6. Which island is smallest? __ Saba

7. Which two Islands are the largest? Bonaire and Curação 8. Which island belongs in part to France? _ St. Martin 1986

9. In what year did Aruba become self-governing? _

Big Bucks for You!

50	ive the problems on another sheet of paper.	Answer space
1.	You receive your first royalty check for \$1,000.00 and deposit it in your checking account. You go directly to the music store and spend \$234.56 on new CDs. What is your balance?	\$765.44

You naturally treat all your friends to pizza, which costs you \$47.76, You pay with a check. What is your balance now? \$717.68

You decide to restock your wardrobe and buy \$389.99 worth of new clothes. What is your balance? \$327.69

\$1372 94

Your next royalty check arrives, and you deposit \$1,712.34. You also freat yourself to a new 15-speed bicycle, which costs \$667.09. What is your balance?

You buy your mother some perfume for a present. You write a check for \$37.89. What is your balance? \$1335.05

You need a tennis racket and some other sports equipment. The bill comes to \$203.45 What is your new balance? \$1131.60

You freet your family to clinner at **Snalls In a Pail**, where the check comes to \$56.17. What is your new balance? \$1075.43

You Join a health club, and the first payment is \$150.90. What is your new balance? \$924.53 You deposit your latest royalty check, which amounts to \$4,451.01. What is your new balance? \$5375.54

To celebrate this good fortune, you take your entire peewee football team to a professional football game. The bill comes to \$4,339.98. What is your new balance?

Snails in a Pail

SIv Me Slugg, world-famous French chef, has made his fast-food business, Snalls in a Pall, the most popular restaurant in the whole area. This is his menu:

> Slime Soup Slugburger Chicken-Fried Snails Silmy Slush Snalicream Shake Snallbits Salad

\$.49 \$.89 \$1.49 \$1.09

Snails in a Pail TO

167

\$40.70

Solve the problems on another sheet of paper. 1. Sly Me Slugg sold 60 Silmy Slushes and 40 Snallcream Shakes \$113.00 on Friday. How much did he make on drinks that day? A coach freated 15 of his team players to Slugburgers. How much change did he receive from \$40.00? \$14.65 Your brother was so hungry that he ordered one of everything on the menu. How much change did he get from a \$10.00 bill? \$1,36

Sly Me Slugg sold \$43.61 in Slime Soup orders on Wednesday and \$33.22 in soup orders on Thursday. How many orders of Slime Soup dld he sell in those 2 days?

5. You had a party at Snalls in a Pall and bought 9 Slugburgers,
6. Shaken-Fried Snalls, 2 Snallbits Salads, 5 Snallcream

1. Shaken-Fried Snalls, 2 Snallbits Salads, 5 Snallcream 3 orders of Chicken-Fried Snalls, 2 Snallbits Salads, 5 Snall Shakes and 10 Silmy Slushes. What was the total cost for \$42.71

6. In one week, Siy Me Slugg sold 200 Slugburgers and 79 orders of Chicken-Fried Snalls. How much money did he earn from these 2 items? \$574.21 You ordered 10 Slugburgers, 10 Snallcream Shakes and 10 Slimy Slushes. What was your total cost?

On Friday, Siy Me earned \$1,252. On Saturday, he earned \$1,765. On Sunday, he earned \$2,998. What was his average dally earnings for those 3 days?

\$2005

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The "Nym" Family

enidmop council cymbal downstairs false freeze narrow pause plain punish question reward

separate thaw true upstairs

Co. CHAMP Words that have similar meanings are called **synonyms**. **Examples:** trip, journey

Words that have opposite meanings are called **antonyms Examples:** hat, cold

Words that sound the same but have different spellings and meanings are called **homonyms**. **Examples:** blue, blew

Use the word list to unscramble the spelling words below Then, **draw** a line to connect each pair of antonyms.

etusniqo <u>question</u> dralswtson downstairs answer /woranr narrow want_ thaw nleocom <u>combine</u> treapsea separate √rlusptas upstairs odarb broad

Write a synonym for each of the following.

to chastise <u>punish</u> faithful <u>true</u> a prize <u>reward</u> erroneous <u>false</u>

Write the homonym that will complete each pair.

1. plane plain 3. paws pause 2 symbol cymbal 4 counsel council

Answers may include:

1.	son	sun	5.	no	know	9.	sail	sale
		knight						tale
		blue						bale
		knew						you're

Delivery Dilemma

Dilly's Deliveries is under new management, and the new boss just instructed his top driver to follow a most peculiar route. The driver is to deliver packages to each of the eight businesses shown below, but she is not necessarily meant to visit them be a larvied eight.



The second delivery is directly north of the first delivery and has one fewer

. The second delivery is directly north of the first delivery and has one fewer package than the first.

Melically is Music needs all five packages delivered before 11:00 A.M.

By the time the paperwork is completed, the packages are verified and greefings are exchanged between the driver and the recipient, each delivery takes fifteen minutes.

The bank is never the last delivery, it always receives four packages.

Troy's Toys has the most packages of all. His delivery will contain as many packages as all the others combined.

Peter's deliveries are live animals, which need to be unloaded first when the store opens of 9:30 A.M.

The fourth delivery is directly east of the first delivery and contains twice the number of packages.

The travel agency and the pet store combined are to receive the same number of packages as the music store.

The fifth delivery contains thruse boxes.

The triad delivery is two stores west of the second.

The tire store, the gracery store and the pet store will all receive the same number of packages. They are the only ones to receive this exact amount.

Percents and Fractions

Write the fraction and percent represented in each situation

Situation	Fraction	Percent
30 marbles out of 100 marbles are red	30 100	30%
29 people out of 100 people voted.	29 100	29%
10 fish out of 100 fish are tropical.	10 100	10%
7 cats out of 100 cats live indoors.	7 100	7%
4 turties out of 100 turties laid eggs.	4 100	4%
7 out of 10 pupples had spots.	7 70 10 = 100	70%
5 out of 10 baskets were made.	$\frac{5}{10} = \frac{50}{100}$	50%
6 out of 25 rocks in my yard are Igneous.	6 24 25 = 100	24%
17 out of 25 rulers are metric.	17 <u>68</u> 25 100	68%
18 out of 20 goldfish are orange.	18 <u>90</u> 20 100	90%
The dress was reduced \$5 from \$20.	5 = 25 20 = 100	25%

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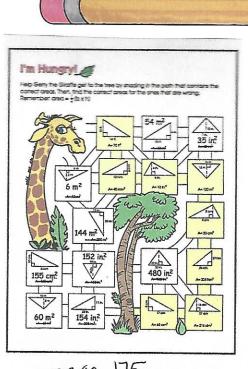
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Draw	Fraction	Percent	Decimal		
	25 100	25%	0.25		
	37 100	37%	0.37		
	18 100	18%	0.18		
	7 10	70%	0.7		
	4 100	4%	0.04		

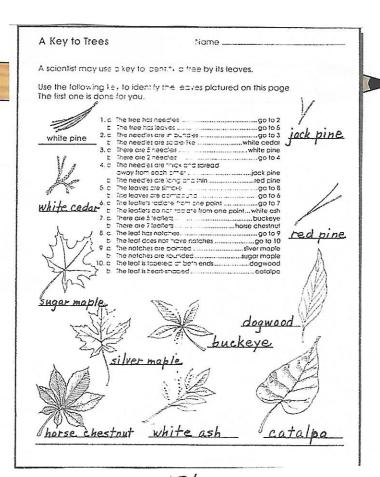
	Witte out 2,645,782.06 In wordstwo million, six hundred
f	orty-five thousand, seven hundred eighty-two an
Solve	six hundredths
2 6	65 + 18 = 83 3. 13.692 + 78 + 313 = \alpha 4. 37 \times 30 = \gamma
-	g=14,083 v=1,110
Estimo	
	856,311 900,0006. 33 5,827
٥,	- 21,400 -> 20,000
	880,000
7. F	Find the average of these numbers: 7, 12, 29, 15, 18, 15
8. 1	ldentify each polygon. 🧮 square 🌰 hexagon 🛕 triang
9. 1	Find the perimeter and area.
	perimeter 28 area 24.5 sq. in.
10 \	$\frac{6}{7} = \frac{3}{2}$
	Write this fraction in lowest terms. $\frac{6}{16} = \frac{3}{8}$
	$\frac{6}{7} = \frac{3}{2}$
11. (With this fraction in lowest terms. $\frac{5}{16} = \frac{3}{8}$ Use $<$ or $>$ to indicate which fraction is greater. $\frac{7}{9} > \frac{4}{9} = \frac{5}{12} < \frac{5}{9}$
11. (Solve , 12. †	With this fraction in lowest terms. Use < or > fo indicate which fraction is greater. $\frac{7}{6} > \frac{4}{9} = \frac{5}{8}$ $\frac{3}{11} + \frac{5}{11} = \frac{8}{11}$ $13. \frac{3}{4} + \frac{1}{8} = \frac{7}{8}$ $14. 3\frac{1}{3} + 2\frac{1}{2} = \frac{5}{6}$
11. (Solve , 12. †	With this fraction in lowest terms. Use < or > fo indicate which fraction is greater. $\frac{7}{6} > \frac{4}{9} = \frac{5}{8}$ $\frac{3}{11} + \frac{5}{11} = \frac{8}{11}$ $13. \frac{3}{4} + \frac{1}{8} = \frac{7}{8}$ $14. 3\frac{1}{3} + 2\frac{1}{2} = \frac{5}{6}$
11. U Solve. 12. 1 15. 1	With this fraction in lowest terms. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
11. (Solve , 12. 1	With this fraction in lowest terms. $\frac{5}{16} = \frac{3}{8}.$ Use < or > to indicate which fraction is greater. $\frac{7}{6} > \frac{4}{6} = \frac{5}{8}.$ $\frac{3}{11} + \frac{5}{11} = \frac{8}{11}.$ $13. \frac{3}{4} + \frac{1}{8} = \frac{7}{8}.$ $14. 3\frac{1}{3} + 2\frac{1}{2} = \frac{5}{6}.$ $2\frac{5}{6} - 1\frac{1}{4} = \frac{117}{12}.$ $16. \frac{7}{8} \times \frac{1}{4} = \frac{7}{32}.$ $17. \frac{4}{5} + \frac{2}{3} = \frac{6}{5}.$ Change $\frac{18}{5}$ into a mixed number. $\frac{3}{3}.$
11. U Solve. 12. † 15. † 18. C	With this fraction in lowest terms. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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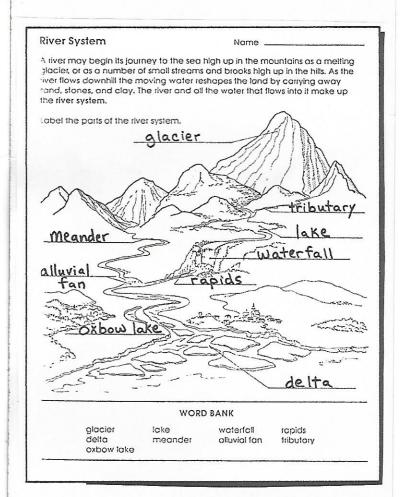
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page 175 (new answer Key)



Page 176 (new answer key)



Answers for p. 255

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Write Government Officials

The government needs to hear from kids just like you! Our nation's leaders and the leaders of other countries need to hear our concerns. Most government officials welcome letters and want to know your thoughts.

Write letters that clearly state what you are concerned about and why you are concerned. Using the information that you have learned will help influence the people who make decisions about the laws and funding that govern the safety of our planet.

NO MATTER HOW YOUNG YOU ARE YOU CAN MAKE A DIFFERENCE.

Here	are	some	addre	sses (of w	here	to	write	to	our	gove	ernme	nt	offici	als.

Representative	
US House of Representatives	
Washington DC 20515	
Senator	
US Senate	
Washington DC 20510	

(You will need to know the names of your state's Senators and Representatives.)

If you wish to write to the leaders of other foreign countries, request the proper address from:

(Country's Name) Embassy The United Nations, United Nations Plaza New York, NY 10017

Organizations to Contact

The Acid Rain Foundation

1630 Blackhawk Hills St. Paul, MN 55122

Acid Rain Information

Clearinghouse Library

Center for Environmental Information, Inc.

33 S. Washington St. Rochester, NY 14608

Adopt-A-Stream Foundation

P.O. Box 5558 Everett, WA 98201

Air Pollution Control

Bureau of National Affairs Inc. 1231 25th St. NW Washington DC 20037

Alliance To Save Energy

1925 K St. NW Suite 206 Washington DC 20036

American Association of Zoological Parks and Aquariums

Oglebay Park Wheeling, WV 26003

American Wind Energy Association

1730 N Lynn St. Suite 610 Arlington, VA 22209

Canadian Coalition On Acid Rain

112 St. Clair Ave. West Suite 504 Toronto, Ontario, Canada M4V 2Y3

Center for Marine Conservation

1725 DeSales St. NW Suite 500 Washington DC 20036

Friends of the Earth

530 Seventh St. SE Washington DC 20003

Global Releaf, c/o the American Forestry Association

P.O. Box 2000 Washington DC 20013

Greenpeace

1436 U Street NW Washington DC 20009

Household Hazardous Waste Project

901 S. National Ave. Box 108 Springfield, MO 65804

National Association of Recycling Industries

330 Madison Ave. New York, NY 10017

National Clean Air Coalition

530 7th St. SE Washington DC 20003

National Wildlife Federation

1412 16th St. NW Washington DC 20036

Public Affairs Office

US Environmental Protection Agency Washington DC 20036

Renew America

1400 16th St. NW Suite 710 Washington DC 20036

Save the Manatee Club

500 N. Maitland Ave. Suite 200 Maitland, FL 32751

U.S. Environmental Protection Agency

401 M St. SW Washington DC 20460

United Nations Environment Programme

North American Office

Room DC2-0803, United Nations
New York, NY 10017