Write each number in words.

1. 1,760

2. 84,505

Write each number in standard form.

- 3. three thousand forty
- 4. one hundred ten
- **5.** 750 thousand, 33

Use < or > to make each sentence true.

6. 12,680 12,519

7. 25,345 | 25,391

8. 7,657 7,650

9. 101,321 141,321

Write the value of the digit 6 in each number.

10. 46,051

11. 816,548

12. 42,916

13. 1,063,251

Write in order from least to greatest.

14. 12; 152; 12,512

15. 10; 10,113; 113

16. 149; 49; 14

17. 1,422; 142; 247

Pearson Education, Inc., publishing as Pearson Prentice Hall, 🍂

| TA # 1.* " | 1 • | T . | 1 (1) |
|---------------------------------------|-------------------|---------|---------|
| \/\liltin | $17/110$ α | 1 1001m | alc (R) |
| Multip. | צווועו | DCCIII | ais (D) |
| * * * * * * * * * * * * * * * * * * * | J | | |

Find each product.

 43.7×0.77

11.1 × 16 265 × 1.3

866 × 68

 $71.7 \\ \times 0.68$

 $6.38 \\ \times 8.5$

667 × 1.9 0.941×9.1

 $10.5 \\ \times 40$

 $0.307 \\ \times 6.1$

 0.649×9.9

 $0.589 \\ \times 21$

6.93 × 46

 6.88×7.4

 $0.607 \\ \times 24$

 $36.4 \\ \times 14$

6.66 × 6.5 82.3×0.71

 $\begin{array}{c} 29.7 \\ \times 1.7 \end{array}$

 0.475×0.39



Writing numbers in expanded form (12 digits)

Grade 6 Place Value Worksheet Write each number in expanded form. ^{1.} 56,168,208 2. 33,987,806 ^{3.} 69,457,549 ^{4.} 32,332,336,214 ^{5.} 1,051,158 ⁶ 9,057,406,104 ^{7.} 24,000 8. 84,250,001 ^{9.} 576,385 10. 90,017

Prime Factors (A)

Use a tree diagram to find the prime factors of each number.

Prime Factors (A)

Use a tree diagram to find the prime factors of each number.

Adding with Some Regrouping (J) Find each sum.

| 1 + 5 | 9+9 | | 2 + 1 | 2 + 2 | | 6 + 4 | 2 + 8 | 5 + 5 | 5 + 7 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <u>~_</u> | | | | | | | | | |
| 4 | 5 | 8 | 9 | 4 | 6 | 4 | | | 2 |
| <u>+7</u> | + 3 | + 3 | <u>+ 5</u> | + 2 | <u>+3</u> | + 5 | <u>+ 6</u> | + 1 | + 2 |
| 1 | 5 | 2 | 2 | 3 | 3 | 4 | 6 | 2 | 3 |
| _ | + 9 | | | <u>+ 2</u> | | <u>+ 2</u> | | | |
| | | | | | | | | | |
| 8 | 4 | | | 6 | | | 2 | 9 | 4 |
| + 2 | + 5 | + 7 | <u>+ 5</u> | <u>+ 5</u> | +8 | <u>+1</u> | _ + 4 | <u>+ 9</u> | +7 |
| 7 | 9 | 7 | 2 | 6 | 4 | Ω | 1 | 7 | 2 |
| | | | | | | | | | |
| <u>+4</u> | + 3 | <u>+1</u> | <u>+7</u> | + <u>1</u> | <u>+ 6</u> | <u>+4</u> | <u>+1</u> | <u>+2</u> | <u>+ 5</u> |
| 4 | 1 | 3 | 3 | 4 | 6 | 3 | 4 | 2 | 1 |
| +8 | <u>+ 6</u> | <u>+ 6</u> | + 9 | + 9 | _+9 | _+8 | + 3 | + 9 | _+9 |
| | | _ | | _ | " | _ | 0 | _ | 4 |
| 9 | 4 | | | 5 | | | | 7 | 1 |
| <u>+ 2</u> | <u>+1</u> | + 9 | + 9 | <u>+ 2</u> | <u>+4</u> | +8 | + 3 | <u>+3</u> | <u>+7</u> |
| 5 | 8 | 5 | 1 | 4. | 6 | 9 | 6 | 4. | 8 |
| + 1 | + 6 | + 9 | | | | | | | |
| | 11.0 | | | | | | | | |
| 8 | 1 | 5 | 3 | 3 | 7 | 1 | 5 | 9 | 1 |
| + 3 | + 9 | + 4 | +3 | + 5 | + 9 | + 4 | + 6 | + 9 | <u>+3</u> |
| _ | _ | _ | _ | | | _ | _ | | _ |
| 6 | 9 | | | | | | 6 | 6 | 2 |
| <u>+8</u> | +3 | <u>+1</u> | <u>+ 6</u> | <u>+ 6</u> | + 5 | <u>+ 6</u> | <u>+ 9</u> | + 4 | + 9 |

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Subtraction Facts to 18 (J)

Calculate each difference.

| 7 | 8 | 12 | 2 | 8 | 4 | 10 | 9 | 10 | 6 |
|-----------------|------------|------------------|------------------|------------|------------|------------|------------|------------|------------------|
| <u>- 1</u> | <u>- 2</u> | - 6 | - 0 | - 0 | - 1 | - 9 | <u>- 4</u> | - 3 | <u>- 2</u> |
| 12 | 16 | 15 | 14 | 11 | 13 | 11 | 4 | 6 | 16 |
| - 7 | - 8 | - 8 | - 5 | - 7 | <u>- 6</u> | - 9 | - 0 | - 3 | <u>- 7</u> |
| 12 | 12 | 10 | 10 | 10 | 6 | 7 | 6 | 12 | 9 |
| <u>- 3</u> | - 5 | -1 | - 5 | - 2 | <u>- 4</u> | <u>- 6</u> | <u>- 0</u> | <u>- 9</u> | <u>- 2</u> |
| 9 | 10 | 7 | 14 | 4 | 6 | 8 | 6 | 10 | 10 |
| <u>- 7</u> | <u>- 4</u> | <u>- 7</u> | - 7 | - 4 | <u>- 1</u> | <u>- 3</u> | <u>- 6</u> | <u>- 6</u> | -8 |
| 7 | 12 | 9 | 5 | 2 | 5 | 1 | 13 | 12 | 2 |
| <u>- 4</u> | - 4 | <u>- 1</u> | <u>- 2</u> | <u>- 1</u> | <u>- 1</u> | <u>- 0</u> | - 8 | - 8 | - 2 |
| 16 | 8 | 10 | 11 | 7 | 7 | 3 | 9 | 5 | 17 |
| <u>- 9</u> | - 1 | <u>- 7</u> | - 3 | <u>- 2</u> | <u>- 0</u> | <u>- 2</u> | <u>- 5</u> | - 5 | - 9 |
| 5 | 4 | 8 | 3 | 15 | 5 | 14 | 9 | 4 | 11 |
| - 3 | <u>- 3</u> | <u>- 5</u> | <u>- 1</u> | <u>- 6</u> | - 0 | <u>- 8</u> | <u>- 9</u> | - 2 | <u>- 5</u> |
| 8 | 8 | 9 | 11 | 6 | | 3 | 3 | 13 | 14 |
| <u>- 8</u> | <u>- 6</u> | <u>- 6</u> | <u>- 8</u> | <u>- 5</u> | | <u>- 0</u> | <u>- 3</u> | - 7 | <u>- 9</u> |
| 8 <u>- 4</u> | 17 - 8 | 15 <u>- 7</u> | 13 <u>- 5</u> | | | | | | 11 <u>- 6</u> |
| 15 | 13 | 1 | 18 | | 9 | 8 | 9 | 5 | 9 |
| <u>- 9</u> | <u>- 9</u> | <u>- 1</u> | <u>- 9</u> | | <u>- 8</u> | <u>- 7</u> | <u>- 3</u> | <u>- 4</u> | <u>- 0</u> |

| Multiplying By 8 (J | Iying by 8 (J) |
|---------------------|----------------|
|---------------------|----------------|

Find each product.

| 6 | 8 | 4 | 2 | 9 | 8 | 8 | 8 × 10 | 8 | 7 ~ 8 |
|-------------|------------|--------------|-----------|------------|-------------|-------------|-------------|-------------|------------|
| <u>×8</u> | <u>×3</u> | <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>×1</u> | <u>× 11</u> | <u>× 10</u> | <u>×5</u> | <u>×8</u> |
| 8 | 9 | 8 | 4 | 8 | 2 | 6 | 11 | 8 | 8 |
| × 10 | × 8 | × 8 | × 8 | × 5 | × 8 | × 8 | × 8 | × 7 | × 3 |
| | | | | | | | | | |
| 8 | 8 | 2 | 8 | 8 | 10 | 4 | 8 | 8 | 8 |
| _×8 | <u>×11</u> | <u>×8</u> | <u>×3</u> | <u>×9</u> | <u>×8</u> | <u>×8</u> | <u>×5</u> | <u>×6</u> | × 7 |
| | | | | | | | | | |
| 8 | 6 | 11 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |
| <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>× 9</u> | <u>×1</u> | <u>×4</u> | <u>× 10</u> | <u>×5</u> | <u>×3</u> |
| | | _ | _ | | | _ | | _ | _ |
| 5 | 12 | 2 | 8 | 8 | 6 | 8 | 10 | 8 | 3 |
| _ <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>×1</u> | <u>×8</u> | <u>×7</u> | <u>×8</u> | <u>× 9</u> | <u>×8</u> |
| | _ | | 177 | 4 | 2 | 0 | | 0 | 0 |
| 8 | 5 | 8 | 7 | 4 | 2 | 8 | 6 | 8 | 8 |
| <u>× 1</u> | <u>×8</u> | <u>× 9</u> | <u>×8</u> | <u>×8</u> | <u>×8</u> | <u>× 12</u> | <u>×8</u> | <u>×11</u> | <u>×3</u> |
| O | 0 | c | 11 | o | 0 | 1 | O | o | 8 |
| 8 | 8 | 6 | 11 | 8 | 8 | 1 | 8 | 8 | |
| <u>× 4</u> | <u>×3</u> | _ <u>× 8</u> | <u>×8</u> | × 9 | _ <u>×8</u> | <u>×8</u> | <u>×7</u> | <u>× 10</u> | <u>× 2</u> |
| 2 | 3 | 12 | 8 | 8 | 8 | 5 | 8 | 8 | 8 |
| × 8 | × 8 | × 8 | × 9 | × 1 | × 11 | × 8 | | × 7 | × 8 |
| | | | | | ··· 11 | | | | |
| 8 | 8 | 12 | 8 | 9 | 11 | 1 | 8 | 8 | 6 |
| | | × 8 | | | | | | | × 8 |
| | | | | | | F | | | |
| 8 | 5 | 8 | 8 | 4 | 11 | 2 | 10 | 8 | 8 |
| <u>×7</u> | <u>×8</u> | <u>×8</u> | × 12 | <u>×8</u> | _×8 | _×8 | <u>×8</u> | <u>× 9</u> | × 6 |

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|-------|-----|------|-----|--------------|---|
| 13. | | | ~ | 7 | ì |
| D_1 | 1/1 | . 11 | YT1 | | 1 |
| 171 | v | זוכו | ,,, | 1 .7 | , |
| | | ~ | | \ - . | , |

Find each quotient.

4)584

3)2505

9)5571

7)1197

3)1041

6)5436

2)1050

2)1606

4)2768

2)1534

7)6902

1)864

9)1512

3)1488

3)1011

Multi-Step Word Problems

- 1. Sandra read 5 books, Deacon read 6 books and Breanna read 7 books. One book was read by all three children, but every other book was different. How many different books did the children read?
- 2. In Science class, Sara needed 8 test tubes for 3 different experiments. The first experiment required 2 test tubes and the other two experiments required the same number of test tubes. How many test tubes were needed for each of the other two experiments?
- 3. Branson and his sister Beatrice combined their allowance of \$7 each, so they could buy a movie for \$12. They bought \$1 containers of fruit salad with the remaining money and split the containers evenly between them. How many containers of fruit salad did they each get?
- 4. Before Cam broke his right arm, he was able to type 9 words per minute on his phone. After he broke his arm, he had to use his left hand for a while, and he could only type 6 words per minute. What is the difference between the number of words he could type in 5 minutes before and after he broke his arm.
- 5. When Gisselle decided to stop eating junk food, she started saving more of her allowance to buy a larger bicycle. She managed to put away \$6 every week for 8 weeks and found a nice used bicycle for \$50. She thought that she had close to that amount in her savings jar. Did she have exactly enough for the bicycle? If not, how much extra or how much too little did she have?
- 6. Annie and Dustin took a beginner's programming course over several weekends that showed them how to make simple video games. They spent most of their waking hours engaged in programming tasks and ended up with a game they called "Ro-Bot-Ro-Call." How many hours do you think they spent on their course? Show your work.

Multi-Step Word Problems

- 7. Kelley belonged to a canoe club that had 18 canoes. They kept their canoes on trailers, each able to carry canoes 2 wide and 3 high. If they had enough trailers for all of their canoes, how many trailers did they have?
- 8. Lilah's band had practiced 24 songs. At a performance, they played 7 songs in their first set and 8 songs in their second set. How many songs did they have for their third set, if they had to save one song for an encore?
- 9. While Gideon was camping with his family for a week, it rained for 3 days. When he looked at the weather records, he saw that the amount of rain was 3 mm, 6 mm, and 5 mm on the three days. During the same week, it rained 26 mm at his house. How much less rain did he experience while camping?
- 10. Heath and Jaydon liked birdwatching and kept track of how many different species they saw at each site. In one day, they visited 5 different sites and saw an average of 7 species at each site. The day before, they saw 30 different species at 6 different sites. How many fewer species did they see at each site the day before?
- 11. Harmony used discarded paper to make notepads for her friends. She would fold five letter size pieces of paper three times then cut along the lines. She would then stack the smaller note papers and staple them together. How long would one notepad last if someone wrote ten notes per day?
- 12. Gregory's nine chickens laid an average of six eggs each per week. Gregory sold those eggs for \$3 per dozen. How much money did he collect in two weeks if he sold all his eggs?

| | Class Date |
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| | |
| Skills Worksheet Section Revi | |
| Section Revi | lew |
| | |
| Scientific Model | S |
| USING KEY TERMS | realises the incorrect term with the correct term |
| In each of the followin | g sentences, replace the incorrect term with the correct term |
| from the word bank. | law |
| theory | nation that matches many hypotheses but may still change. |
| I. A law is the organi | |
| dol tolle you | exactly what to expect in certain situations. |
| 2. A model tens you | |
| | |
| UNDERSTANDING K | EY IDEAS |
| | on of models is that |
| · | 7 0776N TO COD |
| | o not act exactly like the things that they model. The smaller than the things that they model. |
| # thou m | oodel unfamiliar things. |
| Q. mey m | ypes of models? Give an example of each type. |
| 4. What are unleed | ypes of the same |
| | |
| | |
| | |
| 5. Compare how s | scientists use theories with how they use laws. |
| . 0 - 1 | |
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| Name | Class | Date | |
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| Section Review continued | | | |
| MATH SKILLS | | | |
| 6. If Jerry is 2.1 m tall, how tal Show your work below. | ll is a scale model of J | erry that is 10% of his size | e? |
| | | | |
| | | | |
| | | | |
| CRITICAL THINKING | | | |
| 7. Applying Concepts You and an extinct plant. Describe so some limitations of your mo | ome of the potential us odel? | ses for your model. What | are |
| | | | |
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| lame | Class | Date |
|---------------------------------------|---|-------------------------------|
| Skills Worksheet | | |
| Section Re | view | |
| | | |
| ISING KEY TERMS | ement, and Safety | |
| Complete each of the vord bank. | e following sentences by choosin | g the correct term from the |
| mass volume | area temperature | |
| 1. The measure of | the surface of an object is called | |
| 3. TheUNDERSTANDING | of a liquid is usu | ally described in liters. |
| b. almos c. used | are is based on standardized measur st always based on the number 1 only to measure length. only in France. | rements of body parts. .0. |
| 5. How is tempera | ature related to energy? | |
| 6. If you were go appropriate? | ing to measure the mass of a fly, | which SI unit would be most |

| | | Class | Date | |
|---|-----------------------------------|---|-----------------------------------|--------------------------------|
| Section Review co | ntinued | | | |
| RAATII CIZIII C | • | | | |
| MATH SKILLS | | | | |
| 7. Convert 3.0 L into | o cubic centin | neters. Show your | work below. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 8. Calculate the vol | ume of a textb | book that is 28.5 ci | m long, 22 cm v | vide, and |
| 3.5 cm thick. Sho | w your work l | below. | | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| CRITICAL THINKING | • | | | |
| CRITICAL THINKING | | ooun in your toyd | analria ahawa T | 00 1 a ! |
| 9. Making Inference | es The mite sl | nown in your textly used to produce | book is about 5 | 00 µm long in w can you tel |
| 9. Making Inference | es The mite sl | nown in your textl y used to produce | book is about 5 this image? Ho | 00 µm long iı w can you tel |
| 9. Making Inference | es The mite sl | nown in your textl y used to produce | book is about 5 this image? Ho | 00 µm long ii w can you tel |
| 9. Making Inference | es The mite sl | nown in your textl y used to produce | book is about 5 this image? Ho | 00 μm long in w can you tel |
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| 9. Making Inference | es The mite sl | nown in your textly used to produce | book is about 5 this image? Ho | 00 µm long in w can you tel |
| 9. Making Inference | es The mite sl | nown in your textl y used to produce | book is about 5 this image? Ho | 00 µm long ii w can you tel |
| 9. Making Inference real life. What too | es The mite sl ll was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |
| 9. Making Inference real life. What too | es The mite slow was probably | y used to produce | this image? Ho | w can you tel |

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| Skills Worksheet | | |
| Chapter Revi | Δ\ λ/ | |
| Chapter Mevi | | |
| ICINIC VEW TERRO | | |
| USING KEY TERMS | | . , |
| scientific methods. | ms in the same sentence: life s | science and |
| , | | |
| | | |
| 2. Use the following ten | ms in the same sentence: <i>cont</i> | rolled erneriment |
| and variable. | ns in the same sentence, com | roued experiment |
| | | |
| | | |
| | | |
| For each nair of torms ev | plain how the meanings of the | s torms diffor |
| 3. theory and hypothesi | • | sterms unter. |
| e. siveer g carra regionales | , | |
| | | |
| | | |
| | | |
| 4. compound light micr | oscope and electron microsco | pe |
| | | |
| | | |
| | | |
| | | |
| 5. area and volume | | |
| | | |
| | | |
| | | |
| | | |
| UNDERSTANDING KEY I | DEAS · | |
| Multiple Choice | | |
| 6. The stens of se | cientific methods | |
| _ | used in every scientific invest | igation. |
| b. must alway | s be used in the same order. | |
| | with a question. It in the development of a the | orv |
| was water out to 1000 | and development of a title | V-J. |

| Name | | Class | Date | |
|---------------------------------|--|---|---|-------------|
| Chapter | Review continued | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 7. | In a controlled expe a. a control group i b. there are at least c. all factors should d. a variable is not | s compared with or two variables. I be different. | ne or more experimei | ntal groups |
| 8. | Which of the follow a. 10 mL graduated b. 150 mL graduate c. 250 mL beaker d. 500 mL beaker | cylinder | r measuring 100 mL o | f water? |
| 9. | Which of the follow a. meter b. foot | C. | nit? liter kilogram | |
| 10. | A pencil is 14 cm lo a. 1.4 mm b. 140 mm | C. | imeters long is it? 1,400 mm 1,400,000 mm | |
| 11. | The directions for a icons mean that | lab include the sat | ety icons shown belo | w. These |
| | a. you should be cab. you are going intc. you should washd. you should wear the lab. | o the laboratory. your hands first. | ıb apron, and gloves o | during |
| Short Ans 12. List th | wer ree ways that scienc | e is beneficial to liv | ving things. | |
| | | | | <u> </u> |
| 13. Why d | o hypotheses need to | o be testable? | | |
| | | | • | |
| | | | | |
| | | | | |

| Name | | Class | Date |
|-------------------|---|---|------------------------------|
| | Review continued | | |
| 14. Give a | | | e computers and technology. |
| | | | |
| 15. List th | ree types of models, a | | of each. |
| | are some advantages | and limitations of mo | |
| | h SI units can be used can be used to descri | to describe the volu | |
| 18. In a cont | | , why should there b of the experimental a | e several individuals in the |
| | | | |
| | | | · |