Spiral Review Book

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## Contents

### Chapter 1 Magic Squares
1.1 Number and Operations, Measurement ........................................... SR1  
1.2 Geometry, Problem Solving ......................................................... SR2  
1.3 Number and Operations, Data Analysis and Probability ............ SR3  
1.4 Measurement, Reasoning and Proof ........................................... SR4  
1.5 Number and Operations, Geometry ............................................ SR5  
1.6 Algebra, Problem Solving ......................................................... SR6  

### Chapter 2 Multiplication
2.1 Measurement, Number and Operations ........................................ SR7  
2.2 Geometry, Number and Operations ............................................. SR8  
2.3 Algebra, Number and Operations .............................................. SR9  
2.4 Geometry, Measurement, Problem Solving ................................ SR10  
2.5 Algebra, Data Analysis and Probability, Reasoning and Proof ..... SR11  
2.6 Algebra, Data Analysis and Probability ....................................... SR12  
2.7 Algebra, Problem Solving ......................................................... SR13  
2.8 Number and Operations, Measurement ..................................... SR14  

### Chapter 3 The Eraser Store
3.1 Measurement, Problem Solving .................................................. SR15  
3.2 Number and Operations, Geometry ............................................. SR16  
3.3 Number and Operations, Data Analysis and Probability .......... SR17  
3.4 Algebra, Geometry ................................................................. SR18  
3.5 Number and Operations, Measurement ..................................... SR19  
3.6 Algebra, Problem Solving ......................................................... SR20  
3.7 Number and Operations, Reasoning and Proof ....................... SR21  
3.8 Data Analysis and Probability, Geometry ................................ SR22  
3.9 Algebra, Measurement ............................................................. SR23  
3.10 Number and Operations, Problem Solving ............................... SR24  

### Chapter 4 Classifying Angles and Figures
4.1 Number and Operations, Problem Solving ................................ SR25  
4.2 Algebra, Measurement .............................................................. SR26  
4.3 Number and Operations, Data Analysis and Probability .......... SR27  
4.4 Geometry, Problem Solving ...................................................... SR28  
4.5 Data Analysis and Probability, Reasoning and Proof ................ SR29  
4.6 Measurement, Problem Solving ............................................... SR30  
4.7 Number and Operations, Data Analysis and Probability .......... SR31  
4.8 Algebra, Reasoning and Proof .................................................. SR32  
4.9 Number and Operations, Geometry .......................................... SR33
Contents

Chapter 5 Area and Perimeter
5.1 Number and Operations, Geometry, Measurement ......................SR34
5.2 Number and Operations, Problem Solving ................................SR35
5.3 Geometry, Problem Solving ...........................................SR36
5.4 Geometry, Data Analysis and Probability .................................SR37
5.5 Number and Operations, Geometry, Measurement ..........SR38
5.6 Algebra, Problem Solving, Number and Operations ........SR39
5.7 Algebra, Measurement, Number and Operations ..................SR40

Chapter 6 Multi-Digit Multiplication
6.1 Geometry, Measurement .............................................SR41
6.2 Number and Operations, Problem Solving ..............................SR42
6.3 Algebra, Geometry .........................................................SR43
6.4 Number and Operations, Measurement .................................SR44
6.5 Data Analysis and Probability, Problem Solving ......................SR45
6.6 Algebra, Problem Solving ..................................................SR46
6.7 Geometry, Reasoning and Proof .......SR47
6.8 Number and Operations, Data Analysis and Probability ........SR48
6.9 Geometry, Problem Solving ................................................SR49

Chapter 7 Fractions
7.1 Number and Operations, Algebra, Geometry ........................SR50
7.2 Data Analysis and Probability, Problem Solving ......................SR51
7.3 Measurement, Number and Operations ..............................SR52
7.4 Algebra, Geometry .........................................................SR53
7.5 Number and Operations, Problem Solving, Reasoning and Proof ..........SR54
7.6 Number and Operations, Measurement, Problem Solving ....SR55
7.7 Geometry, Measurement ..................................................SR56
7.8 Algebra, Data Analysis and Probability, Reasoning and Proof ....SR57
7.9 Geometry, Problem Solving ..............................................SR58
7.10 Number and Operations, Reasoning and Proof .....................SR59
7.11 Algebra, Geometry, Problem Solving ..................................SR60
<table>
<thead>
<tr>
<th>Chapter 8 Decimals</th>
<th>Chapter 10 Data and Probability</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1 Number and Operations, Problem</td>
<td>10.1 Number and Operations, Problem</td>
</tr>
<tr>
<td>Solving ..................................</td>
<td>Solving ..................................</td>
</tr>
<tr>
<td>8.2 Geometry, Measurement ..........</td>
<td>10.2 Geometry, Algebra ..............</td>
</tr>
<tr>
<td>8.3 Number and Operations, Data</td>
<td>10.3 Measurement, Reasoning and</td>
</tr>
<tr>
<td>Analysis and Probability ..........</td>
<td>Proof ....................................</td>
</tr>
<tr>
<td>8.4 Problem Solving, Reasoning</td>
<td>10.4 Number and Operations,</td>
</tr>
<tr>
<td>and Proof ................................</td>
<td>Geometry ..................................</td>
</tr>
<tr>
<td>8.5 Geometry, Measurement ..........</td>
<td>10.5 Number and Operations,</td>
</tr>
<tr>
<td>8.6 Number and Operations, Problem</td>
<td>Problem Solving .....................</td>
</tr>
<tr>
<td>Solving ..................................</td>
<td>10.6 Algebra, Measurement ..........</td>
</tr>
<tr>
<td>8.7 Algebra, Geometry .............</td>
<td>10.7 Number and Operations,</td>
</tr>
<tr>
<td>8.8 Number and Operations, Data</td>
<td>Problem Solving .....................</td>
</tr>
<tr>
<td>Analysis and Probability ..........</td>
<td>10.8 Geometry, Data Analysis and</td>
</tr>
<tr>
<td>8.9 Measurement, Problem Solving</td>
<td>Probability ...........................</td>
</tr>
<tr>
<td>8.10 Algebra, Geometry ............</td>
<td>11.1 Number and Operations,</td>
</tr>
<tr>
<td>.........................................</td>
<td>Measurement ...........................</td>
</tr>
<tr>
<td>9.1 Geometry, Problem Solving ......</td>
<td>11.2 Geometry, Data Analysis and</td>
</tr>
<tr>
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<td>Probability ...........................</td>
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<tr>
<td>9.2 Number and Operations, Data</td>
<td>11.3 Number and Operations,</td>
</tr>
<tr>
<td>Analysis and Probability ..........</td>
<td>Problem Solving .....................</td>
</tr>
<tr>
<td>9.3 Algebra, Problem Solving ......</td>
<td>11.4 Algebra, Data Analysis and</td>
</tr>
<tr>
<td>.........................................</td>
<td>Probability ...........................</td>
</tr>
<tr>
<td>9.4 Geometry, Measurement ..........</td>
<td>11.5 Number and Operations,</td>
</tr>
<tr>
<td>.........................................</td>
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</tr>
<tr>
<td>9.5 Number and Operations, Problem</td>
<td>11.6 Geometry, Problem Solving ....</td>
</tr>
<tr>
<td>Solving ..................................</td>
<td>................................. SR94</td>
</tr>
<tr>
<td>9.6 Number and Operations, Algebra</td>
<td>..........................................</td>
</tr>
<tr>
<td>.........................................</td>
<td>................................. SR76</td>
</tr>
<tr>
<td>9.7 Geometry, Data Analysis and</td>
<td>..........................................</td>
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<tr>
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<td>9.8 Measurement, Reasoning and</td>
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<td>9.9 Geometry, Problem Solving ......</td>
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<tr>
<td>................................. SR94</td>
<td>..........................................</td>
</tr>
</tbody>
</table>
Contents

Chapter 12 Extending the Number Line
12.1 Number and Operations, Geometry .............................................SR95
12.2 Data Analysis and Probability, Reasoning and Proof ......................SR96
12.3 Measurement, Problem Solving ..............................................SR97
12.4 Algebra, Geometry ........................................................SR98
12.5 Number and Operations, Geometry ........................................SR99
12.6 Number and Operations, Problem Solving ................................SR100
12.7 Measurement, Data Analysis and Probability ................................SR101

Chapter 13 Division
13.1 Geometry, Measurement ..................................................SR102
13.2 Number and Operations, Problem Solving ...............................SR103
13.3 Number and Operations, Data Analysis and Probability ..............SR104
13.4 Algebra, Geometry ........................................................SR105
13.5 Number and Operations, Measurement ....................................SR106
13.6 Data Analysis and Probability, Problem Solving .........................SR107

Chapter 14 Algebraic Thinking
14.1 Geometry, Problem Solving ................................................SR108
14.2 Number and Operations, Measurement ....................................SR109
14.3 Data Analysis and Probability, Problem Solving .........................SR110
14.4 Number and Operations, Geometry .......................................SR111
14.5 Geometry, Measurement ....................................................SR112
14.6 Algebra, Data Analysis and Probability ....................................SR113

Chapter 15 Estimation
15.1 Number and Operations, Data Analysis and Probability ..............SR114
15.2 Geometry, Reasoning and Proof ...........................................SR115
15.3 Measurement, Problem Solving ..........................................SR116
15.4 Algebra, Data Analysis and Probability ....................................SR117
15.5 Number and Operations, Geometry .......................................SR118
15.6 Geometry, Problem Solving ...............................................SR119
15.7 Number and Operations, Problem Solving ................................SR120
15.8 Algebra, Measurement .....................................................SR121
Number and Operations

Find the difference.

1  361
   −174

2  402
   −226

3  554
   −108

4  1,325
   −1,018

5  2,108
   −1,593

6  793
   −607

7  914
   −492

8  2,668
   −1,812

9  6,219
   −5,185

10 7,931
    −5,893

11 1,004
    −587

12 5,030
    −2,681

13 800 − 219 = _____

14 9,005 − 7,672 = _____

Measurement

Use the starting time and the time interval to find the ending time.

15 Start doing homework at 4:00 P.M.
   Work for 1 hour 15 minutes.

16 Start walking to school at 7:50 A.M.
   Walk for 25 minutes.

17 Start playing basketball at 3:55 P.M.
   Play for 1 hour 30 minutes.

18 Start trip to grandmother’s house at 8:10 A.M.
   Travel for 2 hours 45 minutes.

19 Start working in the garden at 10:35 A.M.
   Work for 3 hours 10 minutes.

20 Start walking home from school at 3:55 P.M.
   Walk for 22 minutes.
Geometry

Write the number of pairs of parallel sides and the number of right angles.

1

Pairs of parallel sides

Right angles

2

Pairs of parallel sides

Right angles

3

Pairs of parallel sides

Right angles

4

Pairs of parallel sides

Right angles

Problem Solving

Solve the problem. Explain your answer.

5 Ryan gets on the elevator at the ground floor, which is numbered 0. He rides up 7 floors, down 3, up 2, down 1, and, up 5. On which floor does he get off the elevator?
Number and Operations

Write multiplication and division fact families for each set of numbers.

1) 7, 2, 14
   _____________________________
   _____________________________

2) 8, 5, 40
   _____________________________
   _____________________________

3) 5, 5, 25
   _____________________________
   _____________________________

4) 9, 7, 63
   _____________________________
   _____________________________

5) 3, 7, 21
   _____________________________
   _____________________________

6) 6, 9, 54
   _____________________________
   _____________________________

Data Analysis and Probability

For 7–9, use the pictograph.

<table>
<thead>
<tr>
<th>LETTERS WRITTEN TO PEN PALS</th>
<th>Ms. Piper’s class</th>
<th>Mr. Powell’s class</th>
<th>Mr. Calhoun’s class</th>
<th>Mrs. Vernon’s class</th>
</tr>
</thead>
</table>

Key: Each 💌 = 5 letters.

7) Were there more than or less than 100 letters written in all?

8) How many more letters did Ms. Piper’s class write than Mr. Powell’s class?

9) Which two classes together wrote exactly 60 letters?
Measurement

Write the equivalent measure.

1. 1 pound = ___________ ounces
2. 32 ounces = ___________ pounds
3. 1 ton = ___________ pounds
4. 4,000 pounds = ___________ tons
5. 3 pounds = ___________ ounces
6. 2 tons = ___________ pounds
7. 64 ounces = ___________ pounds
8. 5 tons = ___________ pounds
9. 1,000 pounds = ___________ ton
10. 5 pounds = ___________ ounces
11. ½ pound = ___________ ounces
12. 24 ounces = ___________ pounds

Reasoning and Proof

For 13–15, use the price chart.

13. What is the greatest number of sandwiches you can buy, and spend less than $15?

14. If you buy the greatest possible number of sandwiches for less than $15, will you have enough left over to buy anything else on the menu? If so, what could you buy?

15. You have $10. If you buy at least one sandwich, what else could you buy in order to spend as much of your money as possible but not more than $10?
# Number and Operations

Find the quotient.

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<td>20</td>
<td>12</td>
<td>96</td>
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# Geometry

Circle each prism and mark an “X” over each pyramid.

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**Algebra**

**Use a pattern to complete each multiplication set.**

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<td>2 × 8 = _____</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>20 × 8 = _____</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200 × 8 = _____</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>9 × 2 = _____</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>9 × 20 = _____</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 × 200 = _____</td>
<td></td>
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<tr>
<td>7</td>
<td>8 × 7 = _____</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>8 × 70 = _____</td>
<td></td>
</tr>
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<td></td>
<td>8 × 700 = _____</td>
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**Use a basic fact to help you find the product.**

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<tr>
<td>10</td>
<td>8 × 60 = _____</td>
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<td></td>
<td>6 × 600 = _____</td>
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**Problem Solving**

**Solve the problem. Explain your answer.**

1. Seneca’s class made two lines to go to lunch. There are the same number of students in each line. Seneca is fifth in his line, and there are 8 students behind him. How many students are in his class? ______ students
Measurement

Find the distance traveled.

1. 3 hours at 7 miles per hour
   _____ miles

2. 2 hours at 6 miles per hour
   _____ miles

3. 4 hours at 9 miles per hour
   _____ miles

4. 30 minutes at 16 miles per hour
   _____ miles

5. 8 hours at 7 miles per hour
   _____ miles

6. 3 hours at 9 miles per hour
   _____ miles

Number and Operations

Write the expanded form.

7. $561 = 500 + _____ + 1$

8. $1,254 = 1,000 + _____ + 50 + 4$

9. $3,081 = _____ + 80 + 1$

10. $5,692 = 5,000 + _____ + _____ + 2$

Find the missing number.

11. $96 \quad - _____ \quad 68$

12. $84 \quad + 26$

13. $203 \quad - 150$

14. $\quad + 436 \quad 872$

15. $827 \quad - 32$

16. $27\quad + _____ \quad 101$

17. $149 \quad + 594$

18. $627 \quad + _____ \quad 245$
**Geometry**

Draw the lines of symmetry. Write None if the figure has no lines of symmetry.

1. [Rectangle]
2. [Parallelogram]
3. [Obtuse triangle]
4. [Equilateral triangle]
5. [Isosceles trapezoid]
6. [Regular pentagon]

**Number and Operations**

Write the missing number in each sentence.

- 7. \(6 \times 9 = \) __
- 8. \(8 \times 7 = \) __
- 9. \(6 \times 8 = \) __
- 10. \(9 \times 7 = \) __

Write the numbers in order from smallest to largest.

- 11. 896, 891, 902, 911 ____________________________
- 12. 1,043; 1,403; 1,304; 1,430 ____________________________
Algebra

Draw the next 3 figures in each pattern.

1. 

2. 

3. 

Number and Operations

Write a fraction for the shaded part of each figure.

4. 

5. 

6. 

7. 

8. 

9. 

10. 

Chapter 2
Geometry

Write the number of angles that appear to be right angles for each figure.

1

2

3

_____ right angle(s)  

_____ right angle(s)  

_____ right angle(s)

Measurement

Find the length to the nearest inch.

4 length = _____ in.  

5 length = _____ in.

Problem Solving

Solve the problems. Explain your answers.

6 Three students are sitting in a row for a photograph. How many different ways can they be arranged?

7 Robert is standing in line to buy a snack. There are 7 people in front of him and 8 people behind him. How many people are waiting in line?
Algebra

Write the rule for going from A to B.

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Data Analysis and Probability

Use the graph for Problems 4–6.

4. How many more inches of snow were there in January than in November?
   _____ inches

5. Between which two consecutive months was there the greatest change?
   ______________________

6. How many inches of snow fell during the five months?
   _____ inches

Reasoning and Proof

7. Write the rule used to create the second magic square from the first.

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Algebra

Find the number to complete each magic square.

1

\[
\begin{array}{ccc}
4 & 14 & B \\
18 & A & 2 \\
8 & 6 & 16 \\
\end{array}
\]

A = _____, B = _____

2

\[
\begin{array}{ccc}
A & 13 & 11 \\
17 & 9 & 1 \\
B & 5 & C \\
\end{array}
\]

A = _____, B = _____, C = _____

3

\[
\begin{array}{ccc}
9 & 39 & B \\
A & 27 & 3 \\
21 & 15 & 45 \\
\end{array}
\]

A = _____, B = _____

Data Analysis and Probability

For 4–6, use the following information:

A number cube with numbers 1 to 6 is rolled one time.

4 Is each outcome possible or impossible?

A a number less than 7 ____________________________

B a number greater than 6 ____________________________

C a two-digit number ____________________________

D an odd number ____________________________

5 Choose the outcome that is more likely.

A an even number or a number greater than 4 ____________________________

B an odd number or a number less than 5 ____________________________

6 List all possible outcomes for the roll of the number cube.
Algebra

Shade the next 2 figures to continue the pattern. Explain your answer.

1

2

Problem Solving

Solve the problems. Explain your answers.

3 Jill had $4 left after she bought 3 birthday cards. The birthday cards cost $2 each. How much money did she have before she bought the cards?

4 Miranda left her apartment to exercise by walking up and down the stairwell. She walked down 7 floors. Then, she walked up 3 floors to the 8th floor. Last, she walked up 4 floors to get back to her apartment. Which floor does Miranda live on?
Number and Operations

Multiply the magic square by the given number.

1. \[
\begin{array}{ccc}
2 & 7 & 6 \\
9 & 5 & 1 \\
4 & 3 & 8 \\
\end{array} \times 6
\]

2. \[
\begin{array}{ccc}
7 & 0 & 5 \\
2 & 4 & 6 \\
3 & 8 & 1 \\
\end{array} \times 4
\]

3. \[
\begin{array}{ccc}
7 & 12 & 11 \\
14 & 10 & 6 \\
9 & 8 & 13 \\
\end{array} \times 5
\]

4. \[
\begin{array}{ccc}
1 & 6 & 5 \\
8 & 4 & 0 \\
3 & 2 & 7 \\
\end{array} \times 7
\]

Measurement

Find the perimeter and area of each figure.

5. Perimeter = ______ units
   Area = ______ square units

6. Perimeter = ______ units
   Area = ______ square units

7. Choose the figure that has the smallest perimeter.
   A. 
   B. 
   C. 
   D. 

SR14  Spiral Review Book  Chapter 2
Measurement

Write ounces or pounds to complete the sentence so that it makes sense.

1. A stapler weighs about 12 ________.
2. A ruler weighs about 4 ________.
3. A volume of an encyclopedia weighs about 5 ________.
4. A pair of shoes weighs about 32 ________.
5. A calculator weighs about 6 ________.
6. A wastebasket weighs about 20 ________.
7. A student’s desk weighs about 18 ________.
8. A box of chalk weighs about 4 ________.
9. A carton of books weighs about 30 ________.
10. A stuffed animal weighs about 2 ________.

Problem Solving

Use a strategy and solve.

11. Ronnie’s bookshelf is 8 feet wide. Each box that he wants to put on the shelf is 1 foot wide. If he puts a box at one end and leaves 6 inches of space between boxes, how many boxes can he fit on the shelf? _________

12. An apartment house has 12 floors. Herbert lives on Floor 8. He takes the elevator up 3 floors to visit his aunt. Then he walks down 7 floors to visit his grandmother. From there he walks up 3 floors to visit a friend. On what floor does his friend live? _________

13. A square birthday cake is cut into 16 pieces so that it is a 4-by-4 array of squares. Some friends at the party eat one half of the cake. Later, some other friends eat one half of the pieces that are left. How many pieces of birthday cake have not been eaten? _________
Number and Operations

Write a multiplication sentence for the array.

Geometry

Find the perimeter and area of the figure. Then draw another figure on the grid that has the same perimeter but a different area.

Perimeter = _____ units
Area = _____ square units
New Area = _____ square units

Perimeter = _____ units
Area = _____ square units
New Area = _____ square units
Number and Operations

Add the magic squares. Write the sum for the new square.

1. Add the magic squares.

\[
\begin{array}{ccc}
5 & 4 & 6 \\
6 & 5 & 4 \\
4 & 6 & 5 \\
\end{array}
+ 
\begin{array}{ccc}
7 & 6 & 8 \\
8 & 7 & 6 \\
6 & 8 & 7 \\
\end{array}
= 
\begin{array}{ccc}
\text{sum} \ = \\
\end{array}
\]

2. Add the magic squares.

\[
\begin{array}{ccc}
15 & 10 & 17 \\
16 & 14 & 12 \\
11 & 18 & 13 \\
\end{array}
+ 
\begin{array}{ccc}
11 & 6 & 13 \\
12 & 10 & 8 \\
7 & 14 & 9 \\
\end{array}
= 
\begin{array}{ccc}
\text{sum} \ = \\
\end{array}
\]

Data Analysis and Probability

For 3–5, use the graph.

3. How many students answered the question? _________

4. How many more students chose the most popular day than the least popular day? _________

5. Describe a trend you see in the graph.
Algebra

Complete the card by writing Rule A and Rule B.

<table>
<thead>
<tr>
<th>Front</th>
<th>Back</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="Grid 1" /></td>
<td><img src="Image" alt="Rule A 1" /> <img src="Image" alt="Rule B 1" /></td>
</tr>
<tr>
<td><img src="Image" alt="Grid 2" /></td>
<td><img src="Image" alt="Rule A 2" /> <img src="Image" alt="Rule B 2" /></td>
</tr>
<tr>
<td><img src="Image" alt="Grid 3" /></td>
<td><img src="Image" alt="Rule A 3" /> <img src="Image" alt="Rule B 3" /></td>
</tr>
<tr>
<td><img src="Image" alt="Grid 4" /></td>
<td><img src="Image" alt="Rule A 4" /> <img src="Image" alt="Rule B 4" /></td>
</tr>
</tbody>
</table>

Geometry

Explain how a transformation can be used to demonstrate that the pair of figures is congruent.

5. [Diagram of triangles] 

6. [Diagram of parallelogram]
Number and Operations

Find the total number of items in the set.

1. 3 cartons of books; each carton has 7 books. _______
2. 8 bags of pears; each bag has 7 pears. _______
3. 2 boxes of buttons; each box has $7 \times 7$ buttons. _______
4. 2 crates of oranges; each crate has $7 \times 7 \times 7$ oranges. _______
5. 13 boxes of sweaters; each box has 7 sweaters. _______
6. 12 cases of juice; each case has $7 \times 7$ bottles. _______
7. 9 cases of tissue boxes; each case has $7 \times 7 \times 7$ boxes. _______
8. 15 cartons of cereal; each carton has $7 \times 7$ cereal boxes. _______
9. 18 crates of apples; each crate has $7 \times 7 \times 7$ apples. _______
10. 52 boxes of peanuts; each box has $7 \times 7$ bags of peanuts. _______

Measurement

Measure the line segment. Write the length to the nearest centimeter.

11. _____________________________ cm
12. _____________________________ cm
13. _____________________________ cm
14. _____________________________ cm
15. _____________________________ cm
16. _____________________________ cm
17. _____________________________ cm
Algebra

Find a rule for the set of cards.

<table>
<thead>
<tr>
<th>FRONT</th>
<th>BACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>8</td>
<td>24</td>
</tr>
<tr>
<td>9</td>
<td>27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FRONT</th>
<th>BACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>7</td>
</tr>
<tr>
<td>36</td>
<td>9</td>
</tr>
<tr>
<td>16</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FRONT</th>
<th>BACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>23</td>
<td>16</td>
</tr>
<tr>
<td>31</td>
<td>24</td>
</tr>
</tbody>
</table>

Problem Solving

Use a strategy and solve.

4 A small pool holds 500 gallons of water. It takes 1 minute to put 5 gallons of water into the pool. How long, in hours and minutes, will it take to fill the pool?

4 Four boys and 4 girls volunteer for a committee that will have 1 boy and 1 girl. How many different committees are possible?
Number and Operations

Write a fraction for the shaded part of the figure.

Reasoning and Proof

Solve.

7 Ron is packing 185 books at the bookstore. One carton holds 20 books. How many full cartons can he pack? How many books will be left over?

8 There are 4 bus seats in each row. Passengers fill up each row before starting a new row. If there are 39 passengers on the bus, how many rows are filled? How many passengers are in the last row?
Data Analysis and Probability

You spin a spinner numbered 1–12. Write impossible or certain.

1. The result is a number greater than 12. ________

2. The result is a number from 1 to 12. ________

3. The result is either even or odd. ________

4. The result is the number of days in a month. ________

Circle the result that is more likely.

5. The result is a number less than 10. OR The result is a multiple of 6. ________

6. The result is a multiple of 11. OR The result is greater than 3. ________

7. The result is your age in years. OR The result is less than your age in years. ________

Geometry

Write triangle, quadrilateral, pentagon or none of them.

8. ________

9. ________

10. ________

11. ________

12. ________

13. ________
Algebra

Write a multiplication sentence to find the number of tiles in the picture.

1. [Image of grid with 4 rows and 5 columns of tiles]

2. [Image of grid with 3 rows and 4 columns of tiles]

3. [Image of grid with 5 rows and 5 columns of tiles]

4. [Image of grid with 2 rows and 6 columns of tiles]

Measurement

Write the temperature shown on the thermometer.

5. °F

6. °F

7. °F

8. °F

Write the difference between the high and low temperatures.

9. high temperature 62°F, low temperature 38°F

10. high temperature 100°F, low temperature 16°F
Number and Operations

Use the fact family to complete the number sentences.

1. 2, 7, 14
   2 × 7 = 14
   14 ÷ 2 = 7
   14 ÷ 7 = 2

2. 9, 3, 27
   9 × 3 = 27
   27 ÷ 9 = 3
   27 ÷ 3 = 9

3. 6, 8, 48
   48 ÷ 6 = 8
   48 ÷ 8 = 6
   8 × 6 = 48

4. 5, 9, 45
   5 × 9 = 45
   45 ÷ 5 = 9
   45 ÷ 9 = 5

5. 7, 9, 63
   7 × 9 = 63
   63 ÷ 7 = 9
   63 ÷ 9 = 7

6. 8, 9, 72
   72 ÷ 9 = 8
   72 ÷ 8 = 9
   8 × 9 = 72

7. 1, 9, 9
   1 × 9 = 9
   9 × 1 = 9
   9 ÷ 1 = 9

8. 6, 9, 54
   6 × 9 = 54
   54 ÷ 6 = 9
   54 ÷ 9 = 6

9. 7, 8, 56
   7 × 8 = 56
   56 ÷ 7 = 8
   56 ÷ 8 = 7

Problem Solving

Use a strategy and solve.

10. On his first try, Darryl does 8 push-ups. He increases the number by 2 each time after that. On which try will Darryl do 20 push-ups?

Robin throws a ball 120 feet. Each throw after that is half the distance of the one before. When she has thrown the ball 4 times, how many feet will she have thrown it in all?
Number and Operations

Divide the magic square by the number shown.

1

\[
\begin{array}{ccc}
21 & 70 & 35 \\
56 & 42 & 28 \\
49 & 14 & 63 \\
\end{array}
\]

\(\div 7\)

\[
\begin{array}{ccc}
55 & 5 & 75 \\
65 & 45 & 25 \\
15 & 85 & 35 \\
\end{array}
\]

\(\div 5\)

3

\[
\begin{array}{ccc}
48 & 56 & 16 \\
8 & 40 & 72 \\
64 & 24 & 32 \\
\end{array}
\]

\(\div 8\)

4

\[
\begin{array}{ccc}
48 & 54 & 24 \\
18 & 42 & 66 \\
60 & 30 & 36 \\
\end{array}
\]

\(\div 6\)

Problem Solving

Solve the problem. Explain your answer.

5 How many squares of any size can you find in this grid?

6 A restaurant has square tables that seat one person on each side. For parties, they put them together to make long tables. What is the greatest number of people that can sit at a long table made from 9 square tables?
Algebra

Complete each multiplication table.

1. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 4 & 5 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

2. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 3 & 4 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

3. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 5 & 7 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

4. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 7 & 9 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

5. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 2 & 6 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

6. \[\begin{array}{c|c|c|c|c|c|c|c|c}
\times & 5 & 9 & & & & & & \\
\hline
1 & & & & & & & & \\
2 & & & & & & & & \\
3 & & & & & & & & \\
\end{array}\]

Measurement

Find the difference between the temperatures.

7. 72°F and 39°F
   
   __________

8. 81°F and 29°F
   
   __________

9. 18°F and 7°F
   
   __________

10. 51°F and 32°F
    
    __________

11. 40°F and 27°F
    
    __________

12. 104°F and 75°F
    
    __________
Number and Operations
Complete the multiplications for the array.

1. $4 \times 3 = \square$  
   $4 \times 6 = \square$
   $2 \times 3 = \square$  
   $2 \times 6 = \square$
   $(4 \times 3) + (2 \times 3) + (4 \times 6) + (2 \times 6) = \square$

2. $2 \times \square = \square$  
   $2 \times 4 = \square$
   $3 \times \square = \square$  
   $3 \times 4 = \square$
   $(2 \times 7) + (3 \times 7) + (2 \times 4) + (3 \times 4) = \square$

Data Analysis and Probability
For 3–6, use the pictograph.

3. How many students are in the class?
   ____________

4. How many students live at least 7 blocks from school?
   ____________

5. How many students live fewer than 10 blocks from school?
   ____________

6. Students who live no more than 6 blocks from school usually walk. How many students usually walk to school?
   ____________

<table>
<thead>
<tr>
<th>NUMBER OF BLOCKS STUDENTS IN OUR CLASS LIVE FROM HOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–3 blocks</td>
</tr>
<tr>
<td>4–6 blocks</td>
</tr>
<tr>
<td>7–9 blocks</td>
</tr>
<tr>
<td>10 blocks or more</td>
</tr>
</tbody>
</table>

Key: Each $\square = 2$ students
Geometry

Write the names of the figures that fit each description. Choose from the figures shown below.

- Prism
- Pyramid
- Sphere
- Cone
- Cylinder

1. The figure cannot roll. _____________________________
2. The figure has triangular faces. _____________________________
3. The figure has at least one circular base. _____________________________
4. The figure has one base. _____________________________
5. The figure has two bases that are the same size and shape. _____________________________

Problem Solving

Solve the problem. Explain your answer.

6. Sam spent $1.25 on lunch and $1.50 on bus fare home. Between the bus stop and his house, he stopped and bought a snack for $0.75. When Sam got home, he had $0.85 left. How much money did he have before lunch?

7. Bettina took 45 minutes to do her math homework and 30 minutes to do her social studies assignment. She finished at 5:30 P.M. At what time did she start?
**Data Analysis and Probability**

For 1–5, use the table or the bar graph.

<table>
<thead>
<tr>
<th>MONEY SPENT IN SCHOOL VENDING MACHINES DURING ONE WEEK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day</strong></td>
</tr>
<tr>
<td>Mon</td>
</tr>
<tr>
<td>Tue</td>
</tr>
<tr>
<td>Wed</td>
</tr>
<tr>
<td>Thu</td>
</tr>
<tr>
<td>Fri</td>
</tr>
</tbody>
</table>

1. What is the difference between the greatest and least amounts spent? ______________

2. Describe how spending changed during the week. __________________________________________

---

**Reasoning and Proof**

There are four houses on one side of a street. John’s house is between Rachel’s and LaToya’s. Rachel’s house is next to Craig’s.

3. If Rachel lives in the first house on the left, who lives in the first house on the right? ______________
**Measurement**

Write the equivalent measure.

1. \[ 1 \text{ c} + 1 \text{ c} + 1 \text{ c} + 1 \text{ c} = \_\_\_\_ \text{ pt} \]

2. \[ 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} + 1 \text{ pt} = \_\_\_\_ \text{ gal} \]

3. \[ 2 \text{ qt} = \_\_\_\_ \text{ c} \]
4. \[ 6 \text{ c} = \_\_\_\_ \text{ pt} \]
5. \[ 12 \text{ qt} = \_\_\_\_ \text{ gal} \]

6. \[ 16 \text{ pt} = \_\_\_\_ \text{ gal} \]
7. \[ 20 \text{ c} = \_\_\_\_ \text{ qt} \]
8. \[ 3 \text{ gal} = \_\_\_\_ \text{ c} \]

**Problem Solving**

For 9–10, solve the problem. Explain your answer.

9. There are 3 flavors of ice cream and 4 types of cones. How many different flavor-cone combinations can you make?

10. A burger shop sells 7 hamburgers for every 3 cheeseburgers. If they sell 245 hamburgers this week, how many cheeseburgers do they sell?
Number and Operations

Divide.

1. \(80 \div 10\) 
2. \(120 \div 10\) 
3. \(550 \div 10\) 
4. \(600 \div 10\) 
5. \(130 \div 10\) 
6. \(10 \div 320\) 
7. \(10 \div 90\) 
8. \(10 \div 820\) 
9. \(10 \div 1300\) 
10. \(2400 \div 10\) 
11. \(570 \div 10\) 
12. \(10 \div 1110\) 
13. \(790 \div 10\) 
14. \(10 \div 1000\) 
15. \(10 \div 4200\) 
16. \(10 \div 3120\)

Data Analysis and Probability

Make a list of all possible outcomes for each experiment.

17. Spin the spinner once.

18. Toss the paper drinking cup in the air, and record how it lands.

19. Toss the number cube one time. The faces are numbered in order, beginning with 3.
Algebra

Complete the sentences.

1. \(2 \times 9 = 18\)
   \(18 \div 2 = \square\)

2. \(4 \times 5 = 20\)
   \(20 \div 4 = \square\)

3. \(7 \times 5 = 35\)
   \(35 \div \square = 5\)

4. \(6 \times 7 = \square\)
   \(42 \div 7 = 6\)

5. \(8 \times 9 = 72\)
   \(72 \div \square = 9\)

6. \(6 \times \square = 54\)
   \(54 \div 6 = 9\)

7. \(9 \times \square = 81\)
   \(81 \div \square = 9\)

8. \(7 \times \square = 63\)
   \(63 \div 9 = \square\)

9. \(8 \times \square = 64\)
   \(64 \div \square = 8\)

Reasoning and Proof

Complete each magic square.

10.

\[
\begin{array}{ccc}
\div 3 & 3 & 5 \\
4 & 9 & 2
\end{array}
\]

11.

\[
\begin{array}{ccc}
\div 5 & 9 & 5 \\
4 & 3 & 8
\end{array}
\]

12.

\[
\begin{array}{ccc}
\times 2 & 8 & 40 \\
64 & 24 & 32
\end{array}
\]

13.

\[
\begin{array}{ccc}
\times 3 & 33 & 21 \\
18 & 15 & 30
\end{array}
\]
Number and Operations

Make as many full columns as possible. Then fill in the missing number of rows, columns, and leftover tiles.

1. Arrange 29 tiles into columns of no more than 3 tiles.

   Rows: _____
   Columns: _____
   Leftover tiles: _____

2. Arrange 18 tiles into columns of no more than 4 tiles.

   Rows: _____
   Columns: _____
   Leftover tiles: _____

Geometry

Draw all lines of symmetry for the figure. If the figure has no lines of symmetry, write none.

3. 

4. 

5. 

6. 

Chapter 4
Number and Operations

Find the sum or difference.

1. \[39,524 + 1,853\]
2. \[83,845 + 3,850\]
3. \[58,411 - 3,945\]
4. \[7,403 - 1,086\]
5. \[49,103 - 27,582\]
6. \[65,004 + 27,396\]
7. \[49,582 + 10,547 + 6,194\]
8. \[597 + 4,493 + 32,686\]
9. \[44,972 + 1,895 + 84,885\]

Geometry

Write acute, right, or obtuse to describe the appearance of each angle.

10. 
11. 
12. 

13. 
14. 
15. 

Measurement

Measure. Write the length to the nearest centimeter.

16. 
17. 
18. 

SR34 Spiral Review Book Chapter 5
Number and Operations

Write the product or quotient.

1. $5 \times 7$
2. $42 \div 6$
3. $9 \times 3$
4. $32 \div 8$

5. $81 \div 9$
6. $56 \div 8$
7. $6 \times 8$
8. $8 \times 9$

9. $63 \div 7$
10. $4 \times 10$
11. $49 \div 7$
12. $64 \div 8$

13. $3 \times 7$
14. $45 \div 9$
15. $9 \times 6$
16. $36 \div 6$

17. $5 \times 6$
18. $72 \div 8$
19. $10 \times 7$
20. $56 \div 7$

Problem Solving

Solve the problem. Explain your answer.

21. If Jenny keeps saving at the same rate, how much will she have at the end of 10 weeks?

<table>
<thead>
<tr>
<th>Jenny’s Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week</td>
</tr>
<tr>
<td>Amount</td>
</tr>
</tbody>
</table>
Geometry

Use the triangles below. You may use the same triangle more than once. Tell which triangle or triangles you can move to form the figure shown, and whether each move is a translation, rotation, reflection, or a combination of these.

Problem Solving

Solve the problem. Explain your answer.


---

SR36 Spiral Review Book  Chapter 5
Geometry

Draw all the lines of symmetry for each figure. If there are no lines of symmetry, write none.

1

2

Data Analysis and Probability

3 Complete the bar graph using the data in the table.

<table>
<thead>
<tr>
<th>FAVORITE OLYMPIC EVENTS</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diving</td>
<td>15</td>
</tr>
<tr>
<td>Gymnastics</td>
<td>35</td>
</tr>
<tr>
<td>Hockey</td>
<td>20</td>
</tr>
<tr>
<td>Skiing</td>
<td>25</td>
</tr>
<tr>
<td>Track</td>
<td>60</td>
</tr>
</tbody>
</table>

Use the bar graph you made for Problems 4 and 5.

4 If each student voted once, how many students were polled? _____

5 Which event received the second most number of votes? Explain.
Number and Operations

Find the number of squares in each array.

1. ______ squares
2. ______ squares

Geometry

Circle the quadrilateral that does not belong. Explain.

A
B
C
D
E

Measurement

Write the number of cubes in each figure.

4. ______ cubes
5. ______ cubes
Algebra

Find the missing factor.

1. $9 \times \_ = 27$
2. $6 \times \_ = 24$
3. $7 \times \_ = 49$

4. $81 = 9 \times \_$
5. $3 \times \_ = 30$
6. $\_ \times 8 = 48$

7. $5 \times \_ = 40$
8. $\_ \times 6 = 42$
9. $\_ \times 9 = 36$

Problem Solving

Solve the problem. Explain your answer.

10. A baseball stadium has 34 seating areas. Each area has 185 seats. How many seats are there in the stadium?

Number and Operations

Find the number of squares in each array.

11. ______ squares

12. ______ squares
Algebra
Write the rule that was used to find the output row. Then fill in any missing numbers.

<table>
<thead>
<tr>
<th>Input</th>
<th>3</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>9</td>
<td>18</td>
<td>21</td>
<td>24</td>
<td>30</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input</th>
<th>8</th>
<th>12</th>
<th>20</th>
<th>24</th>
<th>30</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>4</td>
<td>10</td>
<td>15</td>
<td>18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurement
Write the time shown on each clock.

Time: _____  Time: _____  Time: _____

Number and Operations
A warehouse stores bottles of water. There are 24 bottles in a case and 28 cases in a carton. A truck carries 8 cartons of water. How many bottles of water are on the truck?

_____ bottles
Geometry

Write the letters of the figures that are examples of the quadrilateral named.

1. Parallelogram
   A. 
   B. 
   C. 
   D. 

2. Rectangle
   A. 
   B. 
   C. 
   D. 

3. Rhombus
   A. 
   B. 
   C. 
   D. 

Measurement

Write the temperature shown on the thermometer.

4. °F
   5. °F
   6. °F
   7. °F
Number and Operations

Find the sum.

1. 670 + 186
   _______

2. 184 + 72
   _______

3. 340 + 298
   _______

4. 817 + 309
   _______

5. 96 + 15 + 46
   _______

6. 278 + 1,038 + 29
   _______

7. 119 + 398 + 937
   _______

8. 304 + 9,831 + 572
   _______

9. 103 + 2,349
   _______

10. 2,406 + 1,058
    _______

11. 459 + 6,793
    _______

12. 994 + 8,713
    _______

Find the difference.

13. 671 − 274
    _______

14. 508 − 129
    _______

15. 1,192 − 874
    _______

16. 8,600 − 961
    _______

17. 4,503 − 1,017
    _______

18. 457 − 399
    _______

19. 1,341 − 962
    _______

20. 8,091 − 6,902
    _______

Problem Solving

Solve the problem. Explain your answer.

21. There are some 3-legged stools and some 4-legged chairs around a table. In all, there are 17 legs, not counting the table. How many stools and how many chairs are around the table?
**Algebra**

Use patterns to complete each set of multiplication sentences.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$10 \times 9 = 90$</td>
<td>$10 \times 90 = _____$</td>
</tr>
<tr>
<td>2</td>
<td>$10 \times 13 = 130$</td>
<td>$10 \times 130 = _____$</td>
</tr>
<tr>
<td>3</td>
<td>$10 \times 19 = 190$</td>
<td>$10 \times 190 = _____$</td>
</tr>
<tr>
<td>4</td>
<td>$10 \times 51 = _____$</td>
<td>$10 \times 510 = _____$</td>
</tr>
<tr>
<td>5</td>
<td>$10 \times 36 = _____$</td>
<td>$10 \times 360 = _____$</td>
</tr>
<tr>
<td>6</td>
<td>$10 \times 87 = _____$</td>
<td>$10 \times 870 = _____$</td>
</tr>
</tbody>
</table>

**Geometry**

Draw another rectangle that has the same perimeter but a different area. Use a separate sheet of paper for your drawings.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Draw another rectangle that has the same area but a different perimeter. Use a separate sheet of paper for your drawings.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
Number and Operations

Complete the number sentence to name the total number of tiles in the array.

1. \((4 \times \square) + (\square \times \square) = \)
   \(\square + \square = \square\)

2. \((\square \times \square) + (\square \times \square) = \)
   \(\square + \square = \square\)

3. \((\square \times \square) + (\square \times \square) = \)
   \(\square + \square = \square\)

4. \((\square \times \square) + (\square \times \square) = \)
   \(\square + \square = \square\)

Measurement

Circle the earliest time.

3. 7:00 P.M. 5:45 P.M. 6:15 P.M.
4. 2:10 P.M. 1:45 P.M. 1:25 P.M.

5. 6:15 P.M. 5:55 P.M. 6:05 P.M.
6. 9:00 A.M. 8:15 A.M. 7:55 A.M.

7. 5:30 P.M. 5:20 P.M. 5:15 P.M.
8. 8:05 A.M. 7:40 A.M. 8:00 A.M.
Data Analysis and Probability

For 1–3, use the pictograph.

<table>
<thead>
<tr>
<th>NUMBER OF TIMES IT SNOWED IN EACH WINTER MONTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>December</td>
</tr>
<tr>
<td>January</td>
</tr>
<tr>
<td>February</td>
</tr>
<tr>
<td>March</td>
</tr>
</tbody>
</table>

Key: Each snowflake = 2 times.

1. How many times did it snow during the four months?

2. Each time it snowed in December, there were 5 inches of snow. How many inches of snow were there in December?

3. It snowed a total of 24 inches in February. If there was the same amount of snow each time, how many inches did it snow each time in February?

Problem Solving

Solve the problem. Explain your answer.

4. The local bus stops near your house at 7:23 A.M., 7:39 A.M., 7:55 A.M., 8:11 A.M., and so on. If the pattern in the schedule continues, what is the earliest time you can get the bus at this stop after 8:30 A.M.?
Algebra

Write a multiplication sentence to find the number of tiles in the picture.

1  

2  

3  

4  

Problem Solving

Solve the problem. Explain your answer.

5 You can fill the pool from a hose that pours 10 gallons per minute. If the pool holds 3,000 gallons of water, how many hours will it take to fill?
Geometry

Estimate the perimeter of each rectangle. Use only whole numbers in your estimates.

1. 10
   4

2. 20
   12

3. 34
   15

4. 50
   18

Reasoning and Proof

For 5–8, use the graph.

5. On how many days was the high temperature below 60°F?

6. On how many days was the high temperature above 65°F?

7. Estimate the range of high temperatures (the difference between the highest and lowest).

8. What is a reasonable high temperature for Saturday?
Number and Operations

Subtract the magic squares.

1

\[
\begin{array}{ccc}
20 & 70 & 60 \\
90 & 50 & 10 \\
40 & 30 & 80 \\
\hline
12 & 42 & 36 \\
54 & 30 & 6 \\
24 & 18 & 48 \\
\end{array}
\]

Data Analysis and Probability

A bag contains 20 tiles, numbered 1–20. One tile is picked from the bag.

For 3–4, write impossible or certain.

3 The result will be a number greater than 20. __________________

4 The result will be a number less than 40. __________________

For 5–7, choose the outcome that is more likely.

5 an odd number or a number less than 7 __________________

6 a factor of 4 or a multiple of 4 __________________

7 a one-digit number or a two-digit number __________________
Geometry

Answer these questions about transformations of Triangle A.

1. Which triangle is a translation of Triangle A?
   Triangle ________

2. Which triangle is a reflection of Triangle A?
   Triangle ________

3. Which triangle is a rotation of Triangle A?
   Triangle ________

Problem Solving

Solve the problem. Explain your answer.

4. Kerry had $8 when she came back from the store. She bought a CD for $10 and two DVDs for $15 each. How much did she have before she went shopping?
   __________

5. Ms. Johnson gives out pencils to her students. She has 12 left. There are 23 students in her class, and each student gets 2 pencils. How many pencils did she have to begin with?
   __________
Number and Operations

Write the quotient.

1. \[80 \div 10 = \quad \] 
2. \[120 \div 10 = \quad \] 
3. \[210 \div 10 = \quad \] 
4. \[1,000 \div 10 = \quad \] 
5. \[260 \div 10 = \quad \] 
6. \[1,100 \div 10 = \quad \] 
7. \[690 \div 10 = \quad \] 
8. \[870 \div 10 = \quad \] 
9. \[2,320 \div 10 = \quad \]

Algebra

Describe a rule for the numbers in the shaded boxes.

\[
\begin{array}{cccccccccc}
80 & 81 & 82 & 83 & 84 & 85 & 86 & 87 & 88 & 89 \\
70 & 71 & 72 & 73 & 74 & 75 & 76 & 77 & 78 & 79 \\
60 & 61 & 62 & 63 & 64 & 65 & 66 & 67 & 68 & 69 \\
\end{array}
\]

\[
\begin{array}{cccccccccc}
30 & 31 & 32 & 33 & 34 & 35 & 36 & 37 & 38 & 39 \\
20 & 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 \\
10 & 11 & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 \\
\end{array}
\]

Geometry

Name the type of angle indicated by the letter. Choose from right angle, acute angle, or obtuse angle.

\[\text{A} \] 
\[\text{B} \] 
\[\text{C} \]
Data Analysis and Probability

For Problems 1–4, use the table and bar graph below.

<table>
<thead>
<tr>
<th>FAVORITE SCHOOL DAY</th>
<th>Number of Student Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>4 votes</td>
</tr>
<tr>
<td>Tuesday</td>
<td>7 votes</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6 votes</td>
</tr>
<tr>
<td>Thursday</td>
<td>3 votes</td>
</tr>
<tr>
<td>Friday</td>
<td>11 votes</td>
</tr>
</tbody>
</table>

1. Do both displays show the same data? Explain.

2. If each student voted once, how many students voted in all?

3. What is the difference in the number of votes between the day with the most votes and the day with the fewest votes?

Problem Solving

Solve the problem. Explain your answer.

4. Jack’s dog weighs 5 pounds more than his cat. Together, the pets weigh 41 pounds. How much does the dog weigh?
Measurement

Find the area of each figure.

Area = ____ square units  Area = ____ square units  Area = ____ square units

Area = ____ square units  Area = ____ square units  Area = ____ square units

Number and Operations

Write the fact family that is shown by each array.

Write the fact family that is shown by each array.

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Chapter 7
Algebra

Use a pattern to complete each multiplication table. Then complete the difference table.

1. \[ \begin{array}{ccc}
1 & 3 & 4 \\
2 & 3 & 4 \\
3 & 3 & 4 \\
\end{array} \]

   Difference: 1

2. \[ \begin{array}{ccc}
1 & 6 & 7 \\
2 & 6 & 7 \\
3 & 6 & 7 \\
\end{array} \]

   Difference: 

3. \[ \begin{array}{ccc}
1 & 5 & 6 \\
2 & 5 & 6 \\
3 & 5 & 6 \\
\end{array} \]

   Difference: 

4. \[ \begin{array}{ccc}
1 & 3 & 5 \\
2 & 3 & 5 \\
3 & 3 & 5 \\
\end{array} \]

   Difference: 

Geometry

Write a specific name to identify each figure. Then write the number of lines of symmetry in each figure.

5. ________

6. ________

7. ________

8. ________

9. ________

10. ________
Number and Operations
Shade the tiles to show the division.

1. \[23 \div 6 = 3 \text{ r}5\]

2. \[38 \div 5 = 7 \text{ r}3\]

Problem Solving
Solve the problem. Explain your answer.

3. A truck made a delivery of 32 pies to each of 9 bakeries. How many pies were delivered in all? Show how you got your answer.

Reasoning and Proof
Complete each puzzle.

4. 

5. 

6. 

SR54  Spiral Review Book

Chapter 7

Spiral Review
Lesson 5
Name ___________________________ Date __________

**Number and Operations**

Write fractions to name the shaded and unshaded parts.

1. ![Shaded fraction diagram]
   - Shaded: ______
   - Unshaded: ______

2. ![Unshaded fraction diagram]
   - Shaded: ______
   - Unshaded: ______

3. ![Shaded fraction diagram]
   - Shaded: ______
   - Unshaded: ______

**Measurement**

Circle the more reasonable weight.

4. **Apple Juice**
   - 12 oz
   - 1,200 lb

5. **Potatoes**
   - 9 oz
   - 9 lb

6. **Dog**
   - 80 oz
   - 80 lb

7. **Car**
   - 200 oz
   - 2,000 lb

8. **Pretzels**
   - 18 oz
   - 18 lb

9. **Baseball bat**
   - 3 oz
   - 3 lb

**Problem Solving**

Choose a number that makes sense. Solve the problem.

10. Thomas walks ______ to school each day. He walks the same number of blocks home. How many blocks does he walk in 5 days?
Geometry

Find the figure(s) described by each statement below. Write the letter(s).

- The figure has 4 sides and is closed.
- The figure has exactly two pairs of parallel sides.
- The figure has exactly one pair of parallel sides.

![Diagram with quadrilateral, parallelogram, and trapezoid]

Measurement

Find the perimeter and area of each figure.

- Perimeter = _____ units
  Area = _____ sq units

- Perimeter = _____ units
  Area = _____ sq units

- Perimeter = _____ units
  Area = _____ sq units

- Perimeter = _____ units
  Area = _____ sq units

- Perimeter = _____ units
  Area = _____ sq units

- Perimeter = _____ units
  Area = _____ sq units
Algebra

Complete each table. Then write a rule.

1

<table>
<thead>
<tr>
<th>INPUT</th>
<th>4</th>
<th>5</th>
<th>8</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>7</td>
<td>8</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

Rule: ___________

2

<table>
<thead>
<tr>
<th>INPUT</th>
<th>3</th>
<th>6</th>
<th></th>
<th>14</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT</td>
<td>6</td>
<td>12</td>
<td>18</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

Rule: ___________

Data Analysis and Probability

Write yes or no to tell whether the spinner is fair for the game described. Explain.

3

Game: Player A wins if the spinner lands on a number less than 4. Player B wins if the spinner lands on any other number.

__________________________

__________________________

Reasoning and Proof

Use place value to add.

4

327 = 300 + 20 + 7
+152 = 100 + 50 + 2
= 400 + _____ + _____
= _____

5

738 = _____ + _____ + _____
+373 = _____ + _____ + _____
= _____ + _____ + _____
= _____

Chapter 7
Geometry

Name the triangle(s) described by each statement. Write the letter(s).

1. All sides are congruent. _____
2. The triangle has 3 angles. _____
3. There is at least one pair of congruent sides. _____

Problem Solving

Find the area of each smaller part. Then find the area of the whole figure.

4. Area A = _____ square units
   Area B = _____ square units
   Area C = _____ square units
   Area D = _____ square units
   Area of figure = _____ square units

5. Area E = _____ square units
   Area F = _____ square units
   Area G = _____ square units
   Area H = _____ square units
   Area of figure = _____ square units
Number and Operations
For Problems 1–5, find the value.

1. If □ is 1, what is the value of □□□?

2. If □ is 1, what is the value of □□□□?

3. If □ is 1, what is the value of □□□□□?

4. If △ is 1, what is the value of △△?

5. If □□ is 1, what is the value of □□□?

Reasoning and Proof
Solve each puzzle.

6. 

\[
\begin{array}{ccc}
8 & 6 & \\
& 10 & \\
& 12 & \\
\end{array}
\]

\[\div 2\]

\[
\begin{array}{ccc}
4 & 3 & 8 \\
9 & 5 & 1 \\
2 & 7 & 6 \\
\end{array}
\]

\[\div 4\]

\[
\begin{array}{ccc}
44 & \\
28 & \\
\end{array}
\]

\[
\begin{array}{ccc}
6 & 11 & 4 \\
5 & 7 & 9 \\
10 & 3 & 8 \\
\end{array}
\]

7. 

\[
\begin{array}{ccc}
1 & 9 & \\
& 4 & \\
& 32 & \\
\end{array}
\]

\[\times 4\]

\[
\begin{array}{ccc}
24 & 28 & 8 \\
4 & 20 & 36 \\
32 & 12 & 16 \\
\end{array}
\]

\[\times 8\]

\[
\begin{array}{ccc}
56 & 16 & 24 \\
0 & 32 & 64 \\
40 & 48 & 8 \\
\end{array}
\]

8. 

\[
\begin{array}{ccc}
\div 3 & \\
18 & 10 & 2 \\
4 & 14 & 12 \\
\end{array}
\]

9. 

\[
\begin{array}{ccc}
\div 5 & \\
11 & 1 & 15 \\
13 & 9 & 5 \\
3 & 17 & 7 \\
\end{array}
\]
Algebra

Find the missing numbers.

1. \(3 \times \underline{\hspace{1cm}} = 18, \quad 18 \div 3 = \underline{\hspace{1cm}}\)
2. \(\underline{\hspace{1cm}} \times 5 = 20, \quad 20 \div 5 = \underline{\hspace{1cm}}\)
3. \(4 \times \underline{\hspace{1cm}} = 28, \quad 28 \div 4 = \underline{\hspace{1cm}}\)
4. \(\underline{\hspace{1cm}} \times 8 = 32, \quad 32 \div 8 = \underline{\hspace{1cm}}\)
5. \(\underline{\hspace{1cm}} \times 6 = 30, \quad 30 \div \underline{\hspace{1cm}} = 6\)
6. \(14 \div 2 = \underline{\hspace{1cm}}, \quad 2 \times \underline{\hspace{1cm}} = 14\)

Geometry

Choose the figure that does not belong. Explain.

7. A B C D

Problem Solving

Solve the problem. Explain your answer.

8. Each day, Steven saves 5¢ more than the day before. On Monday he saved 15¢, on Tuesday he saved 20¢, and on Wednesday he saved 25¢. If he continues this way, how much will he have saved in all from Monday through Saturday?
Number and Operations

Add the magic squares. Write the sum for the new square.

1

\[
\begin{array}{ccc}
7 & 6 & 8 \\
8 & 7 & 6 \\
6 & 8 & 7 \\
\end{array}
\quad + \quad
\begin{array}{ccc}
9 & 8 & 10 \\
10 & 9 & 8 \\
8 & 10 & 9 \\
\end{array}
\rightarrow 
\begin{array}{ccc}
\text{Sum} = \ \\
\end{array}
\]

2

\[
\begin{array}{ccc}
11 & 6 & 13 \\
12 & 10 & 8 \\
7 & 14 & 9 \\
\end{array}
\quad + \quad
\begin{array}{ccc}
7 & 2 & 9 \\
8 & 6 & 4 \\
3 & 10 & 5 \\
\end{array}
\rightarrow 
\begin{array}{ccc}
\text{Sum} = \ \\
\end{array}
\]

3

\[
\begin{array}{ccc}
20 & 15 & 22 \\
21 & 19 & 17 \\
16 & 23 & 18 \\
\end{array}
\quad + \quad
\begin{array}{ccc}
23 & 18 & 25 \\
24 & 22 & 20 \\
19 & 26 & 21 \\
\end{array}
\rightarrow 
\begin{array}{ccc}
\text{Sum} = \ \\
\end{array}
\]

Problem Solving

Solve the problem. Explain your answer.

4 Planes are arriving at an airport every 8 minutes. A plane has arrived at 5:13 P.M. At what time will the last plane before 6:00 P.M. arrive?

---

Chapter 8
Geometry

Find the area of the figure. The smallest square on the grid has an area of 1 square unit.

1. Area = _____ square units
2. Area = _____ square units
3. Area = _____ square units
4. Area = _____ square units

Measurement

Write the equivalent measure.

5. 16 ounces = _____ pound
6. 2 pounds = _____ ounces
7. 2,000 pounds = _____ ton
8. 5 tons = _____ pounds
9. 80 ounces = _____ pounds
10. 500 pounds = _____ ton
11. \( \frac{3}{4} \) pound = _____ ounces
12. 40 ounces = _____ pounds
13. \( 3 \frac{1}{2} \) pounds = _____ ounces
14. \( \frac{1}{10} \) ton = _____ pounds
Number and Operations

Complete the multiplication sentences for the picture.

1. \((5 \times \square) + (7 \times \square) = \)
   
2. \((4 \times \square) + (\square \times \square) = \)
   
12 \times \square = \square

Data Analysis and Probability

For 3–6, use the spinners. List all possible outcomes for the experiment.

3. You spin Spinner A once.

4. You spin Spinner B once.

5. You spin Spinner A once. Then you spin it again and add the two results.

6. You spin both spinners. Then you subtract the smaller number from the greater number.
Problem Solving

Solve the problem. Explain your answer.

1. One sixth of the students in Ms. McCall’s class live less than 1 mile from school. One third of the students in her class live between 1 mile and 2 miles from school. The rest of the students live more than 2 miles from school. If there are 24 students in Ms. McCall’s class, how many live more than 2 miles from school?

Reasoning and Proof

Work backward to complete the magic squares.

2

4 14 12

18 10 2

8 6 16

× 2

3

6 21 18

27 15 3

12 9 24

÷ 4

4

16 21 20

23 19 15

18 17 22

− 9

5

14 59 50

77 41 5

32 23 68

+ 5

SR64 Spiral Review Book

Chapter 8
Geometry

Write whether the triangle is acute, obtuse, or right.

1. 

2. 

3. 

Measurement

The thermometer shows the high temperature for a day. Suppose the low temperature for the day was 15° colder. Write the low temperature.

10. 

11. 

12. 

13.
Number and Operations

Shade the figure to show a fraction that is equivalent to $\frac{1}{2}$. Then write the fraction of the figure that you shaded.

Complete the fraction so that it is equivalent to $\frac{1}{2}$.

Problem Solving

Solve the problem. Explain your answer.

Ben’s Book Store has used books on sale. The first one you buy costs $3.50. Each book after that costs $2.50. How much will you pay for 8 books?
Algebra

Complete each multiplication table.

1. \[
\begin{array}{ccc|c}
\times & 3 & 6 & \text{Difference} \\
1 & & & \\
2 & & & \\
3 & & & \\
\end{array}
\]

2. \[
\begin{array}{ccc|c}
\times & 2 & 5 & \text{Difference} \\
1 & & & \\
2 & & & \\
3 & & & \\
\end{array}
\]

3. \[
\begin{array}{ccc|c}
\times & 5 & 9 & \text{Difference} \\
1 & & & \\
2 & & & \\
3 & & & \\
\end{array}
\]

4. \[
\begin{array}{ccc|c}
\times & 5 & 12 & \text{Difference} \\
1 & & & \\
2 & & & \\
3 & & & \\
\end{array}
\]

Geometry

The two figures have the same area. Are they congruent? Write yes or no. Then find the area of each figure.

5. \[
\text{Congruent } ___
\]
\[
\text{Area} = \square \text{ square units}
\]

6. \[
\text{Congruent } ___
\]
\[
\text{Area} = \square \text{ square units}
\]
Number and Operations

Find the product.

1. $26 \times 10$
2. $51 \times 20$
3. $78 \times 40$
4. $17 \times 60$
5. $41 \times 30$
6. $55 \times 10$
7. $87 \times 70$
8. $82 \times 90$
9. $93 \times 50$
10. $15 \times 40$
11. $67 \times 70$
12. $62 \times 30$
13. $48 \times 90$
14. $91 \times 40$
15. $59 \times 60$
16. $77 \times 80$

Data Analysis and Probability

For 17–19, use the bar graph. It shows the results of a class survey.

17. How much greater is the total number of students who went to the movies than the number who did not go at all?

18. How many more students went to the movies once than went three or more times?

19. There are 27 students in the class. How many of them did NOT take part in the survey?
Measurement

Measure the line segment to the nearest quarter inch.

1. ___________________________
2. ___________________________
3. ___________________________
4. ___________________________
5. ___________________________
6. ___________________________
7. ___________________________
8. ___________________________

Problem Solving

Solve the problem. Explain your answer.

Vicki weighs her dog Buster on her home scale. Then she weighs herself. When she stands on the scale with her dog, it reads 127 pounds. Vicki weighs 53 pounds more than her dog. How much do they each weigh?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Algebra

Write the rule for the table. Then write the missing numbers.

1

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

2

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

3

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

4

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>14</td>
<td>7</td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Geometry

Write the letters of the figures that are examples of the quadrilateral named.

5 Squares

A

B

C

D

6 Rectangles

A

B

C

D

7 What name describes all the figures in Problems 5 and 6?
Geometry

For 1–4, use the figures. Write the letters of the rectangles that have the same perimeter.

1. _____ and _____
2. _____ and _____
3. _____ and _____
4. _____ and _____

Problem Solving

Solve the problem. Explain your answer.

5. Josh swims 5 days each week. During the first week, he swam 2 laps of the pool each day. During the second week, he swam 4 laps each day. During the third week, he swam 6 laps each day. If he continued this pattern, what is the total number of laps he swam during the fifth week?
Number and Operations

Find the sum of each magic square.

1. \[
\begin{array}{ccc}
2 & 7 & 6 \\
9 & 5 & 1 \\
4 & 3 & 8 \\
\end{array}
\]

Sum = ____

2. \[
\begin{array}{ccc}
3 & 10 & 5 \\
8 & 6 & 4 \\
7 & 2 & 9 \\
\end{array}
\]

Sum = ____

3. \[
\begin{array}{ccc}
24 & 28 & 8 \\
4 & 20 & 36 \\
32 & 12 & 16 \\
\end{array}
\]

Sum = ____

Use the magic square sum to find the missing numbers.

4. \[
\begin{array}{ccc}
11 & 1 & 15 \\
13 & 5 & \\
3 & 17 & \\
\end{array}
\]

5. \[
\begin{array}{ccc}
56 & 16 & \\
8 & 40 & \\
64 & 24 & 32 \\
\end{array}
\]

6. \[
\begin{array}{ccc}
8 & 24 & \\
36 & 20 & \\
16 & 12 & 32 \\
\end{array}
\]

Data Analysis and Probability

For 7–8, use the bar graph.

7. The students saw 41 birds. How many birds were NOT penguins?

8. The students saw 33 cats in all. How many times greater was the number of cats that were not tigers than the number that were tigers?
Algebra

Write the number or numbers that make the sentence true.

1. $8 \times \_ = 32$
   $32 \div 4 = 8$

2. $6 \times \_ = 30$
   $30 \div 6 = 5$

3. $\_ \times 9 = 27$
   $27 \div 9 = \_$

4. $4 \times \_ = 24$
   $24 \div \_ = 6$

5. $8 \times \_ = 40$
   $40 \div \_ = 5$

6. $35 \div \_ = 5$
   $5 \times \_ = 35$

7. $56 \div 7 = \_$
   $\_ \times 7 = 56$

8. $72 \div 9 = \_$
   $9 \times \_ = 72$

9. $9 \times 9 = 81$
   $81 \div \_ = 9$

10. $10 \times \_ = 70$
    $70 \div \_ = 7$

11. $63 \div 9 = \_$
    $\_ \times 9 = 63$

12. $6 \times \_ = 54$
    $54 \div 6 = \_$

Problem Solving

Solve the problem. Explain your answer.

13. A snail fell into a hole that was 7 feet deep. Each day, it climbed 3 feet up the side, but each night it slid back 1 foot. How many days did it take the snail to reach the top of the hole?
Geometry

Write perpendicular, parallel, or neither to describe the pair of lines.

1. [Diagram of two parallel lines]
   -

2. [Diagram of two lines intersecting]
   -

3. [Diagram of two perpendicular lines]
   -

4. [Diagram of two parallel lines]
   -

5. [Diagram of two lines intersecting]
   -

6. [Diagram of two lines that are neither parallel nor perpendicular]
   -

Measurement

Find the sum or difference.

7. $0.93 + 0.87 = 1.80$
8. $2.07 - 1.28 = 0.79$
9. $0.11 + 0.75 = 0.86$
10. $1.00 - 0.66 = 0.34$
11. $0.89 + 0.45 = 1.34$
12. $1.00 - 0.10 = 0.90$
13. $0.33 + 0.55 = 0.88$
14. $0.98 - 0.69 = 0.29$
15. $2.00 - 1.76 = 0.24$
16. $10.00 - 1.76 = 8.24$
17. $10.00 - 3.76 = 6.24$

Spiral Review Book Chapter 9
Number and Operations

Find the number of squares in each of the two sections. Then find the total in the array.

A = _____  
B = _____  
A + B = _____

Problem Solving

Solve the problem. Explain your answer.

A school cafeteria has square tables. Only 1 student can sit on a side. If 2 tables are put together end-to-end, 6 students can sit at the larger table. How many students can sit at a table made by putting 20 tables end-to-end?
### Number and Operations

Write $<$ or $>$ to compare the fractions. Use the diagrams at the top of each column to help you.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$\frac{3}{10}$ &amp; $\frac{5}{10}$</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>$\frac{1}{2}$ &amp; $\frac{5}{12}$</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>$\frac{3}{4}$ &amp; $\frac{10}{12}$</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>$\frac{2}{5}$ &amp; $\frac{1}{2}$</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>$\frac{2}{3}$ &amp; $\frac{2}{6}$</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>$\frac{7}{12}$ &amp; $\frac{1}{2}$</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>$\frac{9}{10}$ &amp; $\frac{4}{5}$</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>$\frac{1}{6}$ &amp; $\frac{3}{12}$</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>$\frac{3}{4}$ &amp; $\frac{2}{3}$</td>
<td></td>
</tr>
</tbody>
</table>

Write the fractions in order from least to greatest.

10. $\frac{1}{3}$, $\frac{1}{4}$, $\frac{3}{8}$
11. $\frac{5}{6}$, $\frac{7}{8}$, $\frac{2}{3}$
12. $\frac{2}{5}$, $\frac{9}{12}$, $\frac{3}{7}$

### Algebra

Complete the fact family. Use the pictures if needed.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5 $\times$ ____ = 30
____ $\times$ 5 = 30
30 $\div$ 5 = ____
30 $\div$ ____ = 5

14 |   |   |

4 $\times$ ____ = 28
____ $\times$ 4 = 28
28 $\div$ 4 = ____
28 $\div$ ____ = 4
Geometry

Which angle is larger?

1. 

2. 

3. 

Write the angles in order from smallest to largest.

4. 

5. 

6. 

Data Analysis and Probability

For 7–8, write impossible or possible.

7. A new student will come into your class before the end of the year.

8. Next week, there will be no Friday.

Choose the event that is the more likely of the two.

9. getting an even number or getting a number less than 3 when you roll a 1–6 number cube

10. getting an even number or getting a number greater than 3 when you draw one of 8 cards marked 1–8
Measurement

For 1–5, use the table, which shows the high temperatures in selected cities on one autumn day.

<table>
<thead>
<tr>
<th>City</th>
<th>High Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York City</td>
<td>54°F</td>
</tr>
<tr>
<td>Dallas</td>
<td>71°F</td>
</tr>
<tr>
<td>Anchorage</td>
<td>19°F</td>
</tr>
<tr>
<td>San Francisco</td>
<td>47°F</td>
</tr>
<tr>
<td>Kansas City</td>
<td>67°F</td>
</tr>
<tr>
<td>Honolulu</td>
<td>81°F</td>
</tr>
</tbody>
</table>

1. What is the difference in temperatures between the warmest and coolest cities? [_____]  
2. What is the difference in temperatures between San Francisco and New York City? [_____]  
3. What is the difference in temperatures between the two warmest cities? [_____]  
4. What is the difference in temperatures between the two coolest cities? [_____]  
5. The day after these temperatures were recorded, the temperature in Dallas was 87°F. How many degrees warmer was Dallas than it had been the day before? [_____]  

Reasoning and Proof

Complete the magic square. Then write the sum.

6. 7 12  
   10 6  
   9 13  

Sum = [_____]  

7. 6 10  
   16 12  
   4 18  

Sum = [_____]  

8. 25  
   17 33  
   29 9 13  

Sum = [_____]  

SR78 Spiral Review Book Chapter 9
Geometry

Decide whether the line is a line of symmetry. Write yes or no.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Problem Solving

Solve the problem. Explain your answer.

10 Together, John and Andrea make 92 cards to give to friends. John makes 16 more cards than Andrea. How many cards do they each make?

-------------

-------------

11 Kyle has $2.55 in his pocket. If he has only quarters and nickels and has 3 more quarters than nickels, how many of each coin does he have?

-------------

-------------
Name ___________________________________ Date ____________________________

**Number and Operations**

**Find the sum.**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.4</td>
<td>+6.3</td>
<td>2</td>
<td>2.12</td>
<td>+1.27</td>
</tr>
<tr>
<td></td>
<td>0.58</td>
<td>+0.07</td>
<td></td>
<td>0.58</td>
<td>+0.7</td>
</tr>
<tr>
<td>6</td>
<td>0.92</td>
<td>+0.18</td>
<td>7</td>
<td>3.41</td>
<td>+7.5</td>
</tr>
</tbody>
</table>

**Measurement**

**Write the equivalent measure.**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>1 cup</td>
<td></td>
<td>1 quart</td>
<td></td>
<td>1 quart</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>17</td>
<td>18</td>
<td>18</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>1 cup</td>
<td></td>
<td>1 cup</td>
<td></td>
<td>1 quart</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_____ cups  _____ pints  _____ cups  _____ pints  _____ quarts  _____ cups
Number and Operations

Use the number line. Write the letter that matches the number.

A F H B G C E D

0 1 2

1. 2.2 _____ 2. 0.4 _____
3. 1.8 _____ 4. 1.0 _____
5. 0.8 _____ 6. 1.2 _____
7. 2.6 _____ 8. 1.6 _____

Problem Solving

Solve the problem. Explain your answer.

Katrina is standing on the middle step of a ladder. She climbs up one step and then down 3 steps so that there are 2 steps below her. How many steps does the ladder have?

Eliza did some chores after school and earned $4 per hour. Then she got $20 for a birthday present and had $32 in all. For how many hours did she do chores?
Geometry

Find the area of the figure. The area of the smallest square on the dot grid is 1 square unit.

Algebra

Complete the last two rows of the table. Then write a rule for the table.

<table>
<thead>
<tr>
<th>Week</th>
<th>Saved</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$1.00</td>
</tr>
<tr>
<td>2</td>
<td>$3.00</td>
</tr>
<tr>
<td>3</td>
<td>$5.00</td>
</tr>
<tr>
<td>4</td>
<td>$7.00</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Books</th>
<th>Pens</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wheels</th>
<th>Tricycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>9</td>
</tr>
<tr>
<td>24</td>
<td>8</td>
</tr>
<tr>
<td>21</td>
<td>7</td>
</tr>
<tr>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>15</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>
Measurement

Circle the larger measurement.

1. 17 inches or \(1\frac{1}{2}\) feet
2. 1 yard or 2 feet 15 inches
3. 2 yards or 5 feet
4. 31 inches or 2 feet 6 inches
5. 51 inches or \(2\frac{1}{2}\) yards
6. \(1\frac{1}{4}\) feet or 19 inches

Reasoning and Proof

For 7–11, use the graph.

7. Which was the warmest day of the week?

8. On how many days was the high temperature above 50°F?

9. At which two days would you look to find the difference between the warmest high temperature and the coolest?

10. Estimate the difference between the warmest high temperature and the coolest.

11. Describe the changes in the high temperatures for the week.
Number and Operations

Write a pair of equivalent fractions for the shaded part of the figure.

1. 

2. 

3. 

4. 

5. 

6. 

Write a fraction that is equivalent to the one given.

7. \( \frac{3}{8} \)  

8. \( \frac{10}{12} \)  

9. \( \frac{15}{20} \)  

10. \( \frac{8}{12} \)  

11. \( \frac{14}{16} \)  

Geometry

The shaded figure shown at right has been transformed by a translation, reflection, or rotation.

12. Which transformation, if any, changes the size or shape of the original figure?

13. How could you show that the two figures are congruent?
Number and Operations

Find the sum.

1. \(381 + 219\)  
2. \(745 + 89\)  
3. \(422 + 199\)  
4. \(611 + 928\)  
5. \(86 + 85 + 21\)  
6. \(108 + 98 + 85\)  
7. \(47 + 76 + 754\)  
8. \(96 + 175 + 36\)

Find the difference.

9. \(351 - 194\)  
10. \(520 - 359\)  
11. \(792 - 225\)  
12. \(905 - 689\)

Find the product.

13. \(32 \times 41\)  
14. \(63 \times 19\)  
15. \(107 \times 96\)  
16. \(229 \times 35\)

Find the quotient.

17. \(96 \div 8\)  
18. \(119 \div 7\)  
19. \(504 \div 9\)  
20. \(221 \div 17\)

Problem Solving

Solve the problem. Explain your answer.

Andrew has 3 new books to put on his shelf. In how many different orders can he put the books?
Algebra

Look for shortcuts to help you complete the tables.

<table>
<thead>
<tr>
<th></th>
<th>5</th>
<th>7</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>× 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>× 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>× 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>3</th>
<th>6</th>
<th>8</th>
<th>13</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>× 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>× 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>× 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurement

Circle the more appropriate unit to measure.

3 the amount of water in a small swimming pool. quart gallon
4 the amount of ice cream in one serving. cup quart
5 the amount of lemonade in a pitcher. quart cup

Complete each sentence.

6 You need ____ cups to fill a quart container that has 1 cup of water in it.
7 You need ____ pints of ice cream to fill a 1-gallon container.
8 You need ____ cups to fill a 1-quart container that has 1 pint of milk in it.
9 You need ____ quart to fill a gallon jug that has 3 quarts of juice in it.
10 You need ____ cups to fill an empty pint container.
11 You need ____ pints to fill a 1-gallon container that is half full of orange juice.
Number and Operations

Write a multiplication sentence for the array.

Problem Solving

Solve the problem. Explain your answer.

7 A school tennis tournament has 8 players. Each player plays until he or she loses one game and is eliminated. How many games will be needed to find the tournament winner?

8 Ramon’s locker combination is a two-digit number. He can’t remember the first digit, but he knows it is either 3, 5, 7, or 9. How many different combinations could he try if the lock shows numbers from 0 to 9?
Geometry

Write *scalene, isosceles, or equilateral* to describe the triangle.

1. 
2. 
3. 
4. 
5. 
6. 

Data Analysis and Probability

A set of cards numbered from 1 to 20 is shuffled and turned upside down. One card is pulled from the deck of cards. Write *impossible, unlikely, likely, or certain* for each event.

7. The card will be a number greater than 15.

8. The card will have a number on it greater than 20.

9. The card will have a number on it between 2 and 16.

10. The number on the card will be either even or odd.

11. The number on the card will be a multiple of 5.

12. The number on the card will be a multiple of 21.

13. The number on the card will be your age in years.

14. The number on the card will be either even or a number less than 18.
**Number and Operations**

Find the difference.

<table>
<thead>
<tr>
<th></th>
<th>9.4</th>
<th>5.2</th>
<th>1.70</th>
<th>27.2</th>
<th>12.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>- 6.7</td>
<td>- 1.9</td>
<td>- 0.18</td>
<td>- 8.6</td>
<td>- 10.9</td>
</tr>
<tr>
<td>2</td>
<td>4.02</td>
<td>56.33</td>
<td>6.3</td>
<td>26.07</td>
<td>91.82</td>
</tr>
<tr>
<td>3</td>
<td>- 2.70</td>
<td>- 41.14</td>
<td>- 0.9</td>
<td>- 22.7</td>
<td>- 56.71</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>10.11</th>
<th>15</th>
<th>103.4</th>
<th>20</th>
<th>15.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>- 8.9</td>
<td>- 4.2</td>
<td>- 74.6</td>
<td>- 9.98</td>
<td>- 8.7</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>0.31</th>
<th>1.43</th>
<th>10.2</th>
<th>122.6</th>
<th>159.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>- 0.22</td>
<td>- 0.97</td>
<td>- 1.8</td>
<td>- 99.1</td>
<td>- 109.1</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurement**

Write the equivalent measure.

<table>
<thead>
<tr>
<th></th>
<th>18 inches = _____ feet</th>
<th>1 yard = _____ inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>5 feet = _____ inches</td>
<td>36 inches = _____ feet</td>
</tr>
<tr>
<td>9</td>
<td>48 inches = _____ feet</td>
<td>1 1/4 feet = _____ inches</td>
</tr>
<tr>
<td>10</td>
<td>3 1/2 yards = _____ inches</td>
<td>1 1/2 yards = _____ feet</td>
</tr>
<tr>
<td>11</td>
<td>42 inches = _____ yards</td>
<td>60 inches = _____ yards</td>
</tr>
<tr>
<td>12</td>
<td>1 1/2 yards = _____ inches</td>
<td>24 inches = _____ yard</td>
</tr>
<tr>
<td>13</td>
<td>20 inches = _____ foot _____ inches</td>
<td>72 inches = _____ yards</td>
</tr>
</tbody>
</table>
Geometry

Find the area of the figure. The area of the smallest square is 1 square centimeter.

Area = _____ cm²

Data Analysis and Probability

You toss a 1–6 number cube. Write the more likely event. If the events are equally likely, write equally likely.

5 tossing an even number or an odd number
6 tossing an even number or a number less than 3
7 tossing a factor of 4 or a factor of 6
8 tossing a multiple of 2 or a multiple of 3
Number and Operations

For 1–10, use a set of Cuisenaire® Rods.

1. Which rod is equivalent to $\frac{1}{2}$ of an orange rod?
2. Which rod is equivalent to $\frac{1}{3}$ of a blue rod?
3. Which rod is equivalent to $\frac{1}{4}$ of a brown rod?
4. Which rod is equivalent to $\frac{2}{3}$ of a blue rod?
5. Which rod is equivalent to $\frac{1}{8}$ of a brown rod?
6. Which rod is equivalent to $\frac{2}{4}$ of a brown rod?
7. Which rod is equivalent to $\frac{3}{10}$ of an orange rod?
8. Which rod is equivalent to $\frac{4}{5}$ of an orange rod?
9. Which rod is equivalent to $\frac{3}{4}$ of a brown rod?
10. Which rod is equivalent to $\frac{2}{3}$ of a dark green rod?

Problem Solving

Solve the problem. Explain your answer.

11. It takes the school cafeteria staff 10 minutes to make 25 lunches. They begin to prepare lunches at 10:15 A.M. and they have 200 lunches to prepare. At what time will they finish?
Algebra

Write the rule that was used to find the numbers in the bottom row from the numbers in the top row. Then fill in the missing numbers.

1. 

<table>
<thead>
<tr>
<th>2</th>
<th>7</th>
<th>4</th>
<th>6</th>
<th>12</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>28</td>
<td>16</td>
<td>24</td>
<td>48</td>
<td>36</td>
</tr>
</tbody>
</table>

2. 

<table>
<thead>
<tr>
<th>12</th>
<th>6</th>
<th>24</th>
<th>30</th>
<th>18</th>
<th>27</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8</td>
<td>6</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. 

<table>
<thead>
<tr>
<th>6</th>
<th>15</th>
<th>9</th>
<th>21</th>
<th>13</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

Data Analysis and Probability

For 4–8, use the graph. No student represented has more than one pet.

4. How many students do NOT have dogs, cats, or fish? _____________

5. How much greater is the number of students who have pets than the number who do not have pets? _____________

6. How much greater is the number of students who have a pet that is not a dog than the number who have a dog? _____________

7. What fraction of the students have either a dog or a cat? _____________
Number and Operations

Fill in the empty frames to complete the multiplication.

1. \(27 \times 18\)

<table>
<thead>
<tr>
<th></th>
<th>20</th>
<th>7</th>
<th>27</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>200</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>160</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. \(25 \times 23\)

<table>
<thead>
<tr>
<th></th>
<th>20</th>
<th>5</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>400</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>60</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. \(32 \times 24\)

<table>
<thead>
<tr>
<th></th>
<th>30</th>
<th>2</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. \(17 \times 34\)

<table>
<thead>
<tr>
<th></th>
<th>10</th>
<th>7</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. \(36 \times 21\)

<table>
<thead>
<tr>
<th></th>
<th>30</th>
<th>6</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. \(42 \times 16\)

<table>
<thead>
<tr>
<th></th>
<th>40</th>
<th>2</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurement

Write the equivalent measure.

7. 2 quarts = ____ gallon

8. 6 cups = ____ quarts

9. 12 cups = ____ quarts

10. 1 gallon = ____ pints

11. 2 quarts = ____ cups

12. 8 pints = ____ cups

13. 3 gallons = ____ quarts

14. 2 pints = ____ cups

15. 16 quarts = ____ pints

16. 16 cups = ____ gallon

17. 2 gallons = ____ cups

18. 12 cups = ____ pints
Geometry

Write acute, right, or obtuse to describe the angle.

1. ___________
2. ___________
3. ___________

4. ___________
5. ___________
6. ___________

7. ___________
8. ___________
9. ___________

Problem Solving

Solve the problem. Explain your answer.

10. Jake has a fair spinner numbered 1–8. He spins it 24 times to see how many numbers come up exactly \( \frac{1}{8} \) of the time. Here are his results.

3, 4, 4, 5, 6, 8, 7, 1, 8, 7, 3, 2, 5, 5, 4, 6, 7, 1, 2, 3, 8, 2, 5, 7

Which numbers came up more times than expected?
Number and Operations

Write the value of the underlined digit.

1. 594,305
2. 83,912
3. 708,346
4. 992,025
5. 4,032,669

Write the number described.

6. 10,000 more than 305,018
7. 100,000 less than 1,823,208
8. 1,000 more than 992,745
9. 1,000,000 less than 3,049,627
10. 100,000 more than 971,307
11. 10,000 less than 230,475
12. 100,000 less than 1,032,308

Geometry

Write prism or pyramid to describe the figure. If the figure is neither a prism nor a pyramid, write neither.

13. 
14. 
15. 

Chapter 12
Data Analysis and Probability

For 1–5, use the cards. A card is picked and replaced 20 times. Predict the number of times the result will occur. Explain your prediction.

1 a quadrilateral

2 a polygon

3 a figure that is not a polygon

Reasoning and Proof

Study the first magic square. Describe the pattern that was used to make the second magic square. Then complete the second magic square.

4

\[
\begin{array}{ccc}
4 & 14 & 12 \\
18 & 10 & 2 \\
8 & 6 & 16 \\
\end{array}
\]

\[
\begin{array}{ccc}
9 & 29 & 25 \\
37 & & \\
17 & & \\
\end{array}
\]

5

\[
\begin{array}{ccc}
6 & 21 & 18 \\
27 & 15 & 3 \\
12 & 9 & 24 \\
\end{array}
\]

\[
\begin{array}{ccc}
6 & & \\
1 & & \\
4 & 3 & 8 \\
\end{array}
\]
**Measurement**

Complete the statement with *grams* or *kilograms*.

1. A coffee pot might weigh about 1,000 ____________.
2. A classroom desk might weigh about 10 ____________.
3. A stapler might weigh about 200 ____________.
4. A car might weigh about 1,500 ____________.

Write the weights in order from least to greatest.

5. 120 grams, 1 kilogram, 900 grams
6. 2.5 kilograms, 3,000 grams, 2,200 grams

**Problem Solving**

Solve the problem. Explain your answer.

7. The school librarian opens a carton of 30 new books. He puts half of them on the shelf and gives $\frac{1}{3}$ of the rest to a teacher. How many books remain in the carton?

8. Heather has 20 math homework problems. She does $\frac{1}{4}$ of them right after she gets home from school and $\frac{1}{5}$ of the remaining ones right before dinner. How many problems does she have to do after dinner?
Algebra

Write the missing numbers in the number sentences.

1. \(9 \times \square = 18\)
   \(18 \div 9 = \square\)

2. \(7 \times \square = 42\)
   \(42 \div 7 = \square\)

3. \(\square \times 9 = 36\)
   \(36 \div 9 = \square\)

4. \(4 \times \square = 32\)
   \(32 \div \square = 4\)

5. \(8 \times \square = 48\)
   \(48 \div \square = 6\)

6. \(35 \div \square = 7\)
   \(5 \times \square = 35\)

7. \(54 \div 9 = \square\)
   \(\square \times 9 = 54\)

8. \(81 \div 9 = \square\)
   \(9 \times \square = 81\)

9. \(9 \times 7 = \square\)
   \(\square \div 7 = 9\)

Geometry

Find the volume of the prism.

10. \(2 \text{ in.} \times 8 \text{ in.} \times 1 \text{ in.}\)

11. \(7 \text{ cm} \times 3 \text{ cm} \times 3 \text{ cm}\)

12. \(8 \text{ in.} \times 8 \text{ in.} \times 8 \text{ in.}\)

13. \(6 \text{ cm} \times 4 \text{ cm} \times 7 \text{ cm}\)

14. \(5 \text{ yd} \times 8 \text{ yd} \times 3 \text{ yd}\)

15. \(1 \text{ in.} \times 1 \text{ in.} \times 8 \text{ in.}\)
Number and Operations

Use the expression to solve the problem.

1. Jason trains for a bicycle race by biking 25 miles per day for 25 days. How far does he bike during that time?

\[(25 \times 20) + (25 \times 5) = \text{_______ miles} \]

2. A shipment of cans of corn has 22 cartons with 24 cans in each carton. How many cans are in the shipment?

\[(20 \times 24) + (2 \times 24) = \text{_______ cans} \]

3. Five friends each order the same breakfast. The cost for each friend is $3.95. How much do they spend in all?

\[(5 \times $4.00) - (5 \times $0.05) = \$ \text{_______} \]

Geometry

Write acute, right, or obtuse to describe the triangle.

4. 

5. 

6. 

7. 

8. 

9. 

**Number and Operations**

Write a decimal and a fraction to represent each part of the grid.

1. **Shaded:** ,
   **Unshaded:** ,

2. **Shaded:** ,
   **Unshaded:** ,

**Problem Solving**

Solve the problem. Explain your answer.

3. Rafael has 20 small cubes. Is it possible for him to use all the cubes making stacks so that each stack has exactly one cube more than the stack before it? If so, how can he do it?

4. Tonya has exactly 100 small cubes spread out on the table. What are the dimensions of the largest cube she can make using as many of the cubes as possible? How many small cubes will she have used if she makes the largest possible cube?
Measurement

Complete the number sentence.

1. 11 days + 3 days = □ weeks
2. 30 minutes × 8 = □ hours
3. 29 days − 8 days = □ weeks
4. 2 hours ÷ 4 = □ minutes
5. 120 minutes ÷ 2 = □ hour
6. 34 days + 8 days = □ weeks
7. 22 days + 6 days = □ weeks
8. 3 weeks − 4 days = □ days

Data Analysis and Probability

For 9–11, use either the survey data or the graph.

HOW MANY SNACKS DO YOU USUALLY HAVE EACH DAY?

<table>
<thead>
<tr>
<th>Snacks per Day</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>More than 3</td>
<td>2</td>
</tr>
</tbody>
</table>

9. How many students answered the question? _______________________
10. What was the most common response? _________________________
11. How would you describe the pattern shown in the graph? ______________

Chapter 12
**Geometry**

Find the area of each face of the figure. Then add the areas to find the total area.

1. 4 cm
   4 cm
   Area of each face = ________ cm²
   Total area = ________ cm²

2. 3 m
   3 m
   10 m
   Total area = ________

3. 1 in.
   4 in.
   4 in.
   1 in.
   Total area = ________

4. 8 m
   2 m
   8 m
   Total area = ________

**Measurement**

Measure the line with the Cuisenaire® Rod named. Then write the length of the line in centimeters.

5. white cm

6. purple cm

7. yellow cm

SR102 Spiral Review Book Chapter 13
**Number and Operations**

Fill in the missing numbers on the number line.

1. 
   -6 [ ] -4 [ ] -2 [ ] 0 [ ] 2 [ ] 3 [ ] 5 [ ] 6 [ ] 7 [ ]

2. 
   [ ] -8 [-7 -6 -5 -4 -3 -2 -1 [ ] 1 [ ] 2 [ ] 4 [ ]

3. 
   -12 [ ] -10 [-9 -8 -6 -5 -4 -3 -2 [ ] 0 [ ] 1 [ ]

**Problem Solving**

Solve the problem. Explain your answer.

Antonio asked his classmates to name their favorite after-school activity. Here are the results.

<table>
<thead>
<tr>
<th>play sports</th>
<th>play a game</th>
<th>play sports</th>
<th>watch TV</th>
<th>play a game</th>
</tr>
</thead>
<tbody>
<tr>
<td>watch TV</td>
<td>play a game</td>
<td>watch TV</td>
<td>play sports</td>
<td>play a game</td>
</tr>
<tr>
<td>play a game</td>
<td>read</td>
<td>play a game</td>
<td>play a game</td>
<td>play a game</td>
</tr>
<tr>
<td>watch TV</td>
<td>read</td>
<td>play sports</td>
<td>play a game</td>
<td>do homework</td>
</tr>
<tr>
<td>play sports</td>
<td>play a game</td>
<td>read</td>
<td>read</td>
<td>play sports</td>
</tr>
</tbody>
</table>
**Number and Operations**

**Write > or < to compare the numbers.**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.91</td>
</tr>
<tr>
<td>2</td>
<td>0.71</td>
</tr>
<tr>
<td>3</td>
<td>1.5</td>
</tr>
<tr>
<td>4</td>
<td>21.08</td>
</tr>
<tr>
<td>5</td>
<td>5.74</td>
</tr>
<tr>
<td>6</td>
<td>0.50</td>
</tr>
<tr>
<td>7</td>
<td>0.2</td>
</tr>
<tr>
<td>8</td>
<td>66.93</td>
</tr>
<tr>
<td>9</td>
<td>0.45</td>
</tr>
<tr>
<td>10</td>
<td>1.602</td>
</tr>
<tr>
<td>11</td>
<td>3.09</td>
</tr>
<tr>
<td>12</td>
<td>4.12</td>
</tr>
<tr>
<td>13</td>
<td>9.3</td>
</tr>
<tr>
<td>14</td>
<td>4.40</td>
</tr>
<tr>
<td>15</td>
<td>50.50</td>
</tr>
</tbody>
</table>

**Data Analysis and Probability**

**Write a fraction that names the probability of the event.**

Roll a 1–6 number cube.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>an even number</td>
</tr>
<tr>
<td>18</td>
<td>a multiple of 4</td>
</tr>
</tbody>
</table>

Spin a spinner labeled A, B, C, D, E, F, G, H.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>a vowel</td>
</tr>
<tr>
<td>22</td>
<td>a letter from the word BAG</td>
</tr>
</tbody>
</table>

Spin a spinner numbered 2–9.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>an even number</td>
</tr>
<tr>
<td>25</td>
<td>a multiple of 3</td>
</tr>
</tbody>
</table>
Algebra

Complete the table for the number sentence \( y = x + 3 \). Then draw a graph of the relationship.

<table>
<thead>
<tr>
<th>( x )</th>
<th>( y )</th>
</tr>
</thead>
<tbody>
<tr>
<td>-2</td>
<td>1</td>
</tr>
<tr>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>-1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Geometry

Find the area of the figure. The area of the smallest square is 1 square centimeter.
Number and Operations

Draw the whole unit if the picture represents the fraction given.

1. \[\text{\[
\begin{array}{c}
\hline
\hline
\hline
\hline
\end{array}
\]
\text{ is } \frac{1}{2}.\]

2. \[\text{\[
\begin{array}{c}
\hline
\hline
\hline
\hline
\end{array}
\]
\text{ is } \frac{1}{3}.\]

3. \[\text{\[
\begin{array}{c}
\cdot \\
\cdot \\
\cdot \\
\cdot \\
\end{array}
\]
\text{ is } \frac{2}{3}.\]

4. \[\text{\[
\begin{array}{c}
\triangle \\
\triangle \\
\triangle \\
\triangle \\
\end{array}
\]
\text{ is } \frac{3}{4}.\]

5. \[\text{\[
\begin{array}{c}
\hline
\hline
\hline
\hline
\end{array}
\]
\text{ is } \frac{3}{5}.\]

6. \[\text{\[
\begin{array}{c}
\cdot \\
\cdot \\
\cdot \\
\cdot \\
\cdot \\
\cdot \\
\end{array}
\]
\text{ is } \frac{2}{3}.\]

Measurement

Complete the number sentence.

7. \[3 \text{ nickels} + 3 \text{ dimes} = \text{______¢}\]

8. \[2 \text{ nickels} \times 4 = \text{______¢}\]

9. \[8 \text{ dimes} - 5 \text{ nickels} = \text{______¢}\]

10. \[6 \text{ dimes} \div 3 = \text{______¢}\]

11. \[86¢ + 14¢ = \text{______¢}\]

12. \[\$3.00 - 1.75 = \text{______}\]

13. \[15¢ \times 4 = \text{______¢}\]

14. \[\$3.00 \div 4 = \text{______¢}\]

15. \[\$1.75 + 2.50 = \text{______}\]

16. \[25¢ \times 6 = \text{______}\]

17. \[\$4.25 - 2.00 = \text{______}\]

18. \[71¢ - 24¢ = \text{______¢}\]
Data Analysis and Probability

For 1–4, use the bar graph.

1. Which was the most popular lunch served on Tuesday?
   
   [Maximum answer blank]

2. Which two types of lunches together were the closest to 100 lunches?
   
   [Answer blank]

3. About how many more sandwiches were served than salads?
   
   [Answer blank]

4. Estimate the number of lunches that were served on Tuesday.
   
   [Answer blank]

5. Which two types of lunches were the closest in the number served?
   
   [Answer blank]

Problem Solving

Solve the problem. Explain your answer.

6. Sol built a fence around his square garden. He used 8 fence posts on each side, including 1 at each corner. How many posts did he use in all?
   
   [Answer blank]
Geometry

Draw the result of the transformation.

1. Translate the triangle 5 units right and 3 units down.

2. Reflect the triangle across the line.

3. Translate the triangle 3 units left and 4 units up.

4. Reflect the triangle across the line.

Problem Solving

Solve the problem. Explain your answer.

5. How many different money amounts can you make with a penny, a nickel, a dime, and a quarter?
Number and Operations

Complete the fact family for the area of the rectangle.

1. Area = 84
   \[7 \times \square = 84, 84 \div 7 = \square\]
   \[12 \times \square = 84, 84 \div 12 = \square\]

2. Area = 112
   \[8 \times \square = 112, 112 \div 8 = \square\]
   \[14 \times \square = 112, 112 \div 14 = \square\]

3. Area = 65
   \[5 \times \square = 65, 65 \div 5 = \square\]
   \[13 \times \square = 65, 65 \div 13 = \square\]

4. Area = 105
   \[7 \times \square = 105, 105 \div 7 = \square\]
   \[15 \times \square = 105, 105 \div 15 = \square\]

Measurement

For 5–8, use the table.

<table>
<thead>
<tr>
<th>Day</th>
<th>Temperature at 9:00 A.M.</th>
<th>Temperature at noon</th>
<th>Temperature at 6:00 P.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>47°F</td>
<td>61°F</td>
<td>56°F</td>
</tr>
<tr>
<td>Sunday</td>
<td>43°F</td>
<td>49°F</td>
<td>45°F</td>
</tr>
<tr>
<td>Monday</td>
<td>38°F</td>
<td>52°F</td>
<td>43°F</td>
</tr>
</tbody>
</table>

5. On which day was there the greatest change in temperatures between 9:00 A.M. and 6:00 P.M.?

6. On what day and time was the warmest temperature measured?

7. Which day had the least change in temperature between 9:00 A.M. and noon?

8. By how many degrees did the temperature change on Monday from 9:00 A.M. to noon?
Data Analysis and Probability

For 1–5, use the histogram.

1. How many students did more than 40 minutes of homework?

2. How many more students did between 21 and 40 minutes than between 0 and 20 minutes?

3. How many students are included in the graph’s data?

4. How many students did 1 hour or less of homework?

5. Did more students do less than 41 minutes or more than 1 hour of homework? How many more students?

Problem Solving

Solve the problem. Explain your answer.

6. The Shirt Shop has 125 shirts left after a busy Saturday. They sold shirts to 48 customers. Of those customers, 29 bought one shirt, 12 bought 2 shirts, and the rest bought 3 shirts. How many shirts did the Shirt Shop have at the start of the day?
### Number and Operations

Find the quotient.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6)270</td>
<td>2</td>
<td>5)480</td>
</tr>
<tr>
<td>5</td>
<td>15)165</td>
<td>6</td>
<td>12)228</td>
</tr>
<tr>
<td>9</td>
<td>9)441</td>
<td>10</td>
<td>6)582</td>
</tr>
<tr>
<td>3</td>
<td>4)292</td>
<td>7</td>
<td>3)381</td>
</tr>
<tr>
<td>11</td>
<td>8)512</td>
<td>12</td>
<td>7)567</td>
</tr>
<tr>
<td>4</td>
<td>7)406</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Geometry

Draw as many rectangles as you can with the given perimeter.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>12 units</td>
</tr>
<tr>
<td>14</td>
<td>20 units</td>
</tr>
</tbody>
</table>
Geometry

Describe the figure that can be made from the net.

1. 
2. 
3. 
4. 
5. 
6.

Measurement

Use a ruler to measure an object that matches the description. Write the name of the object that you measure and its length.

7. something about as long as your notebook
8. something about as long as your thumb
9. something about 2 feet long
10. something about 9 inches long
11. something about as tall as your teacher
**Algebra**

**Complete the table.**

<table>
<thead>
<tr>
<th>Write a number between 10 and 99.</th>
<th>Multiply the number by 9.</th>
<th>Add the digits in the product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6 Describe the pattern in the third column.

**Data Analysis and Probability**

For 7–11, write the numbers 1 through 10 on slips of paper. Predict how many times the outcome will occur for this experiment: Mix up the papers, pick one, record the number, and put the paper back. Do this 10 times. Write whether your results are close to your prediction.

7 a number less than 6 ________________

8 an odd number ____________________

9 a multiple of 5 __________________

10 a 3 ____________________________

11 Why do you think the results might not match your predictions?

______________________________
Number and Operations

Use rounding or compatible numbers to estimate the missing factor or quotient.

1. \(39 \times \square = 792\)
2. \(78 \div 39\)
3. \(18 \times \square = 379\)
4. \(6 \div 532\)
5. \(22 \div 812\)
6. \(51 \times \square = 486\)
7. \(37 \div 1,835\)
8. \(82 \times \square = 252\)
9. \(63 \times \square = 4,776\)

Data Analysis and Probability

Write the probability as a fraction.

For 10–12, use this experiment: One card is picked from a deck of ten cards numbered 2 to 11.

10. an even numbered card
11. a number that is a multiple of 3
12. a number that is a factor of 12

For 13–15, use this experiment: One marble is picked from a bag containing 5 red, 3 blue, 1 green, and 1 yellow.

13. a marble that is not red
14. a marble that is either green or yellow
15. a marble that is not blue
Geometry

For 1–10, use the coordinate grid. Write an ordered pair to identify the location of each point.

1. A
2. B
3. C
4. D
5. E
6. F
7. G
8. H
9. J
10. K

Reasoning and Proof

Follow the steps to complete the number puzzle.

Steps | Shorthand
--- | ---
Think of a number. | $x$
Multiply by 2. | $2x$
Add 3. | $2x + 3$
Multiply by 2. | $4x + 6$
Subtract 6. | $4x$
Divide by 4. | $x$

What do you notice about the answer in each puzzle?
Measurement

Complete the equation.

1. 8 ounces = ___ pound
2. 2 pounds = ___ ounces
3. 4,000 pounds = ___ tons
4. 3 tons = ___ pounds
5. 1 1/2 tons = ___ pounds
6. 32 ounces = ___ pounds
7. 16 ounces = ___ pound
8. 32,000 ounces = ___ ton
9. 24 ounces = ___ pounds
10. 48 ounces = ___ pounds
11. 5 pounds = ___ ounces
12. 2 tons = ___ ounces
13. 40 ounces = ___ pounds
14. 3 1/2 pounds = ___ ounces
15. 12 pounds = ___ ounces
16. 1 1/2 ton = ___ ounces
17. 1 1/2 tons = ___ pounds
18. 112 ounces = ___ pounds

Problem Solving

Solve the problem. Explain your answer.

15. Eric has two cubes, each the same size. He glues them together so that a face on one cube exactly matches a face on the other. How many faces does the new figure have?

16. Douglas puts a square tile on his desk. He places equilateral triangles around the square so that one side of each triangle touches one side of the square. How many sides does the new figure have?
Algebra

Fill in the table. The first problem is done for you.

1

<table>
<thead>
<tr>
<th>$x$</th>
<th>4</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$3x + 4$</td>
<td>16</td>
<td>25</td>
<td>10</td>
<td>13</td>
</tr>
</tbody>
</table>

2

<table>
<thead>
<tr>
<th>$x$</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$2x - 7$</td>
<td>3</td>
<td>9</td>
<td>5</td>
<td>1</td>
</tr>
</tbody>
</table>

3

<table>
<thead>
<tr>
<th>$x$</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$4x - 1$</td>
<td>3</td>
<td>23</td>
<td>11</td>
<td>31</td>
</tr>
</tbody>
</table>

Data Analysis and Probability

For 4–7, use the bar graph.

4 How many students have a step that is at least 28 inches long?

5 How many students have a step that is no more than 28 inches?

6 How many more students have a 32-inch step than a 20-inch step?

7 There are 30 students in this class. How many are not represented in the graph?
Number and Operations

Write < or > to compare the numbers.

1. 590,302 □ 590,320
2. 53,284 □ 53,199
3. 108,494 □ 180,001
4. 1,901,039 □ 1,901,093
5. 2,207,901 □ 2,207,190
6. 5,883,171 □ 5,838,992

Write the numbers in order from least to greatest.

7. 102,495 120,045 110,995
8. 3,219,203 3,291,302 2,993,902
9. 998,591 989,951 997,640
10. 4,493,937 4,439,973 4,493,379

Geometry

Write R under each prism and Y under each pyramid. If the figure is neither, write N.

11. □  □  □
12. □  □  □
13. □  □  □
14. □  □  □
15. □  □  □
16. □  □  □
17. □  □  □
18. □  □  □
Geometry

For 1–6, use the square shown at the right to find the perimeter and area. The square has a perimeter of 4 centimeters and an area of 1 square centimeter.

1

Perimeter = ______
Area = ______

2

Perimeter = ______
Area = ______

3

Perimeter = ______
Area = ______

4

Perimeter = ______
Area = ______

5

Perimeter = ______
Area = ______

6

Perimeter = ______
Area = ______

Problem Solving

Solve the problem. Explain your answer.

7 Trisha’s kitchen floor is 122 square feet. She buys 4 boxes of tiles. Each box covers 32 square feet. Does she have enough tiles for her floor? If not, how many more square feet of tiles does she need? If she has enough, how many extra square feet does she have?
Number and Operations

Solve.

1. Anita walks 1.2 miles to school, 0.7 mile to the store on her way home, and then another 0.8 mile home. How many miles does she walk in all?  

2. Javier rides his bike 13.25 kilometers each day to work. On Saturday, he rides 8.5 kilometers to visit a friend. How many kilometers farther does he ride to work than to visit his friend?  

3. Fred measures the distance from one corner of his street to the other. He finds it to be 142.5 meters. The block he lives on is a rectangle. The other length is 127.75 meters. What is the distance around the block in meters?  

4. A train trip between 3 cities covers the following distances: 192.3 miles, 187.6 miles, 179.9 miles. What is the total length of the trip in miles?  

Problem solving

Solve the problem. Explain your answer.

5. A theater is showing a movie in two auditoriums at the following times: 1:10 P.M., 1:30 P.M., 3:20 P.M., 3:40 P.M., 5:30 P.M., and so on. If the pattern continues, at what time will the next show after 5:30 P.M. start?  

6. In the pattern shown below, each number after the first two is found by adding the two numbers just before it. What are the next three numbers in the pattern?  
   0, 3, 3, 6, 9, 15, 24, 39, □, □, □  

Spiral Review Book Chapter 15
Algebra

Find the products.

1. \(12 \times 12 = \) 
2. \(14 \times 14 = \)
3. \(11 \times 13 = \)
4. \(13 \times 15 = \)
5. \(21 \times 21 = \)
6. \(16 \times 16 = \)
7. \(20 \times 22 = \)
8. \(15 \times 17 = \)
9. \(31 \times 31 = \)
10. \(25 \times 25 = \)
11. \(30 \times 32 = \)
12. \(24 \times 26 = \)
13. \(27 \times 27 = \)
14. \(42 \times 42 = \)
15. \(26 \times 28 = \)
16. \(41 \times 43 = \)
17. \(36 \times 36 = \)
18. \(53 \times 53 = \)
19. \(35 \times 37 = \)
20. \(52 \times 54 = \)

Measurement

Write the equivalent measure.

11. 48 inches = \(\) feet
12. 3 yard = \(\) inches
13. 6 feet = \(\) inches
14. 60 inches = \(\) feet
15. 96 inches = \(\) feet
16. 35 feet = \(\) inches
17. 11 yards = \(\) inches
18. 39 feet = \(\) yards
19. 132 inches = \(\) feet
20. 252 inches = \(\) yards