1. Measure each line segment to the nearest millimeter.
   a. 
   
   \[ \overline{RS} \]
   About _____ cm _____ mm
   b. 
   
   \[ \overline{CS} \]
   About _____ cm _____ mm

2. Round 409,381,886 to the nearest
   a. hundred.
   ____________
   b. ten thousand.
   ____________
   c. ten million.
   ____________
   d. hundred million.
   ____________

   \[ \square = 86 \times 29 \]

   a. \( 10^2 = \) ____________
   b. \( 10 \square = 10 \times 10 \times 10 \times 10 \)
   c. \( 1,000 = \square \)
   d. 10 to the ninth power = ____________

5. Circle \( \frac{5}{6} \) of the squares.
Multiplication/Division Number Stories

Fill in each Multiplication/Division Diagram. Then write a number model. Be sure to include a unit with your answer.

1. The profit from the Maple Street lemonade stand was $36. Four girls will share this amount equally. What will each girl’s share be?

<table>
<thead>
<tr>
<th>girls</th>
<th>dollars per girl</th>
<th>dollars in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: __________________________

Answer: __________________________

2. Sheila has 57 pictures to put in her photo album. She can put 6 pictures on each page. How many pages will be completely filled up when she is finished?

<table>
<thead>
<tr>
<th>pages</th>
<th>pictures per page</th>
<th>pictures in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: __________________________

Answer: __________________________

3. Reuben walks a total of 35 blocks going to and from school each week. He always walks the same route. How many blocks does he walk each day?

<table>
<thead>
<tr>
<th>days</th>
<th>blocks per day</th>
<th>blocks in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: __________________________

Answer: __________________________
4. Hassan is helping his teacher put 8 centimeter cubes into each paper cup for a math project. How many paper cups can he fill if there are 79 cubes?

<table>
<thead>
<tr>
<th>paper cups</th>
<th>cubes per paper cup</th>
<th>cubes in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: _______________________

Answer: _______________________

Try This

5. Mr. Henning’s fourth-grade class is planning a field trip to see a play. The bus will cost $100, and the tickets will cost $125. The 25 students will share the total cost equally. How much will each student pay for the field trip?

<table>
<thead>
<tr>
<th></th>
<th>_________ per _________</th>
<th>______ in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: _______________________

Answer: _______________________

6. Martina and 3 friends sold 636 boxes of cookies for their club. Each girl sold the same number of boxes. How many boxes of cookies did each girl sell?

<table>
<thead>
<tr>
<th>_________</th>
<th>_________ per _________</th>
<th>______ in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: _______________________

Answer: _______________________

139
**Extended Multiplication Facts**

1. \(9 \times 5 = \underline{\phantom{0000}}\)  
   \(9 \times 50 = \underline{\phantom{0000}}\)  
   \(90 \times 5 = \underline{\phantom{0000}}\)  
   \(90 \times 50 = \underline{\phantom{0000}}\)  
   \(900 \times 5 = \underline{\phantom{0000}}\)  
   \(90 \times 500 = \underline{\phantom{0000}}\)

2. \(8 \times 7 = \underline{\phantom{0000}}\)  
   \(8 \times 70 = \underline{\phantom{0000}}\)  
   \(80 \times 7 = \underline{\phantom{0000}}\)  
   \(80 \times 70 = \underline{\phantom{0000}}\)  
   \(800 \times 7 = \underline{\phantom{0000}}\)  
   \(80 \times 700 = \underline{\phantom{0000}}\)

3. \(4 \times 9 = \underline{\phantom{0000}}\)  
   \(4 \times 90 = \underline{\phantom{0000}}\)  
   \(40 \times 9 = \underline{\phantom{0000}}\)  
   \(40 \times 90 = \underline{\phantom{0000}}\)  
   \(400 \times 9 = \underline{\phantom{0000}}\)  
   \(40 \times 900 = \underline{\phantom{0000}}\)

4. \(6 \times \underline{\phantom{0000}} = 18\)  
   \(60 \times \underline{\phantom{0000}} = 180\)  
   \(60 \times \underline{\phantom{0000}} = 1,800\)  
   \(\underline{\phantom{0000}} \times 60 = 180\)  
   \(\underline{\phantom{0000}} \times 600 = 1,800\)  
   \(30 \times \underline{\phantom{0000}} = 1,800\)

5. \(\underline{\phantom{0000}} \times 8 = 48\)  
   \(\underline{\phantom{0000}} \times 80 = 480\)  
   \(\underline{\phantom{0000}} \times 80 = 4,800\)  
   \(60 \times \underline{\phantom{0000}} = 480\)  
   \(6 \times \underline{\phantom{0000}} = 4,800\)  
   \(6 \times \underline{\phantom{0000}} = 48,000\)

6. \(8 \times \underline{\phantom{0000}} = 24\)  
   \(8 \times \underline{\phantom{0000}} = 2,400\)  
   \(80 \times \underline{\phantom{0000}} = 2,400\)  
   \(\underline{\phantom{0000}} \times 30 = 240\)  
   \(\underline{\phantom{0000}} \times 3 = 240\)  
   \(\underline{\phantom{0000}} \times 300 = 240,000\)
1. There are 32 students in the class. A yearbook page can show 8 student photos. How many pages are needed to include all the student photos?

<table>
<thead>
<tr>
<th>pages</th>
<th>photos per page</th>
<th>photos in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: ________________
Answer: _______ pages

2. Solve each open sentence.
   a. $24 = a \times (5 + 1)$  $a = \underline{\phantom{0000}}$
   b. $54 / 6 = 81 / b$  $b = \underline{\phantom{0000}}$
   c. $(c + 4) / 3 = 7$  $c = \underline{\phantom{0000}}$
   d. $m - 3.87 = 7.49$  $m = \underline{\phantom{0000}}$
   e. $0.98 + 4.83 = f + 4.35$  $f = \underline{\phantom{0000}}$

3. Use a paper-and-pencil algorithm to add or subtract.
   a. $0.85 + 0.53$
   b. $0.64 + 1.73$
   c. $12.38 - 1.09$
   d. $3.05 - 0.67$

   a. $670 \text{ cm} = \underline{\phantom{0000}} \text{ m}$
   b. $4,800 \text{ cm} = \underline{\phantom{0000}} \text{ m}$
   c. $916 \text{ cm} = \underline{\phantom{0000}} \text{ m} \underline{\phantom{0000}} \text{ cm}$
   d. $18 \text{ m} = \underline{\phantom{0000}} \text{ cm}$

5. Name a fraction equivalent to $\frac{1}{2}$. Circle the best answer.
   A. $\frac{3}{4}$
   B. $\frac{8}{9}$
   C. $\frac{5}{10}$
   D. $\frac{3}{5}$
Solving Division Problems

For Problems 1–6, fill in the multiples-of-10 list if it is helpful. If you prefer to solve the division problems in another way, show your work.

1. José’s class baked 64 cookies for the school bake sale. Students put 4 cookies in each bag. How many bags of 4 cookies did they make?

10 [4s] = ____________  Number model: ____________________________
20 [4s] = ____________  Answer: _____________ bags
30 [4s] = ____________
40 [4s] = ____________
50 [4s] = ____________

2. The community center bought 276 cans of soda for a picnic. How many 6-packs is that?

10 [6s] = ____________  Number model: ____________________________
20 [6s] = ____________  Answer: ______________ 6-packs
30 [6s] = ____________
40 [6s] = ____________
50 [6s] = ____________

3. Each lunch table at Johnson Elementary School seats 5 people. How many tables are needed to seat 191 people?

10 [5s] = ____________  Number model: ____________________________
20 [5s] = ____________  Answer: _____________ tables
30 [5s] = ____________
40 [5s] = ____________
50 [5s] = ____________
4. The preschool held a tricycle parade. Trent counted 135 wheels. How many tricycles is that?

\[
\begin{align*}
10 \text{ [3s]} & = \underline{135} & \text{Number model: } & \underline{135} \\
20 \text{ [3s]} & = \underline{135} & \text{Answer: } & \underline{135} \text{ tricycles} \\
30 \text{ [3s]} & = \underline{135} \\
40 \text{ [3s]} & = \underline{135} \\
50 \text{ [3s]} & = \underline{135}
\end{align*}
\]

5. How many 8s are there in 248?

\[
\begin{align*}
10 \text{ [8s]} & = \underline{248} & \text{Number model: } & \underline{248} \\
20 \text{ [8s]} & = \underline{248} & \text{Answer: } & \underline{248} \\
30 \text{ [8s]} & = \underline{248} \\
40 \text{ [8s]} & = \underline{248} \\
50 \text{ [8s]} & = \underline{248}
\end{align*}
\]

6. How many 7s are in 265?

\[
\begin{align*}
10 \text{ [7s]} & = \underline{265} & \text{Number model: } & \underline{265} \\
20 \text{ [7s]} & = \underline{265} & \text{Answer: } & \underline{265} \\
30 \text{ [7s]} & = \underline{265} \\
40 \text{ [7s]} & = \underline{265} \\
50 \text{ [7s]} & = \underline{265}
\end{align*}
\]
These notations for division are equivalent:

\[ \frac{134}{6} \quad 134 \div 6 \quad 134 / 6 \quad \frac{134}{6} \]

**1.** There are 6 pencils in each pack. How many packs can be made from 96 pencils?

Number model: __________________________

Answer: ______ packs

How many pencils are left over? ____ pencils

**2.** Phil has $79 to purchase books. Books cost $7 each. How many books can Phil buy?

Number model: __________________________

Answer: ______ books

How many dollars are left over? ____ dollars

**3.** There are 184 plants to be put into pots. Each pot can hold 8 plants. How many pots are needed?

Number model: __________________________

Answer: ______ pots

How many plants are left over? ____ plants

**4.** The principal shared 395 cookies equally among 9 classes. How many cookies did each class receive?

Number model: __________________________

Answer: ______ cookies

How many cookies were left over? ____ cookies
Partial-Quotients Division Algorithm \(\text{cont.}\)

Divide.

5. \(3)\overline{87}\)

Answer: \[\underline{29}\]

6. \(331 \div 7\)

Answer: \[\underline{47}\]

Try This

7. Twelve shirts fit into a box. There are 372 shirts to be put into boxes. How many boxes are needed?

Number model: \[\underline{32}\]

Answer: \[\underline{12}\] boxes

How many shirts are left over? \[\underline{0}\] shirts

8. There are \[\underline{252}\] players in the league. (Write a number greater than 100.)

There are \[\underline{30}\] players on each team. (Write a number between 3 and 9.)

How many teams can be made?

Number model: \[\underline{8}\]

Answer: \[\underline{8}\] teams

How many players are left over? \[\underline{6}\] players
## Place Value in Decimals

### 1. Write these numbers in order from smallest to largest.

<table>
<thead>
<tr>
<th>1.26</th>
<th>0.58</th>
<th>1.09</th>
<th>1.091</th>
<th>0.35</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2. A number has

- 6 in the tenths place,
- 4 in the ones place,
- 5 in the hundredths place, and
- 9 in the tens place.

Write the number.

### 3. Write the smallest number you can make with the following digits:

<table>
<thead>
<tr>
<th>3</th>
<th>6</th>
<th>4</th>
<th>7</th>
<th>2</th>
</tr>
</thead>
</table>

### 4. What is the value of the digit 4 in the numerals below?

| a. 37.48 |
| b. 49.08 |
| c. 0.942 |
| d. 1.664 |

### 5. Write each number using digits.

- **a.** four and seventy-two hundredths
  
- **b.** nine hundred thirty-five thousandths

### 6. I am a four-digit number less than 10.

- The digit in the tenths place is the result of dividing 36 by 4.
- The digit in the hundredths place is the result of dividing 42 by 7.
- The digit in the ones place is the result of dividing 72 by 8.
- The digit in the thousandths place is the result of dividing 35 by 5.

What number am I?

| --- | --- | --- | --- | --- |
1. Measure each line segment to the nearest millimeter.
   a. 
   
   
   
   
   
   About _____ cm _____ mm
   b. 
   
   
   
   
   
   About _____ cm _____ mm

2. Round 5,906,245 to the nearest
   a. million.
   
   
   
   
   b. ten thousand.
   
   
   
   
   c. thousand.
   
   
   
   
   d. hundred.
   
   
   
   

   
   
   
   
   
   
   
   
   

   a. \(10^4 = \) 
   b. \(10 \square = 10 \times 10 \times 10 \times 10 \times 10 \)
   c. \(100 = 10 \square \)
   d. 10 to the seventh power = 
   
   

5. Circle \(\frac{1}{2}\) of the squares.
Interpreting Remainders

For each number story:

- Draw a picture.
- Write a number model.
- Use a division algorithm to solve the problem.
- Decide what to do about the remainder.

1. Jackson is buying balloons for a party. Balloons cost $6 per bunch. How many bunches can he buy with $75?

   Picture:

   Number model: ______________________

   Answer: ______ bunches

   What did you do about the remainder? Circle the answer.

   A. Ignored it
   B. Reported it as a fraction or decimal
   C. Rounded the answer up

   Why? ________________________________
   ________________________________
   ________________________________

2. Rosa is buying boxes to hold all 128 of her CDs. Each box holds 5 CDs. How many boxes are needed to store all of her CDs?

   Picture:

   Number model: ______________________

   Answer: ______ boxes

   What did you do about the remainder? Circle the answer.

   A. Ignored it
   B. Reported it as a fraction or decimal
   C. Rounded the answer up

   Why? ________________________________
   ________________________________
   ________________________________
3. Lateefah won 188 candy bars in a raffle. She decided to share them equally with 7 of her classmates and herself. How many candy bars did each person receive?

Picture:

Number model: ______________________

Answer: ______________ candy bars

What did you do about the remainder?
Circle the answer.

A. Ignored it

B. Reported it as a fraction or decimal

C. Rounded the answer up

Why? ________________________________
______________________________
______________________________
______________________________
______________________________

Try This

Write each answer as a mixed number by rewriting the remainder as a fraction.

4. $2\div 27$ ______________________

5. $10\div 883$ ______________________

6. $16\div 252$ ______________________

Write each answer as a decimal.

7. $39 \div 2 = 19 \text{ R1}$ ______________________

8. $183 \div 12 = 15 \text{ R3}$ ______________________

9. $2,067 \div 5 = 413 \text{ R2}$ ______________________
LESSON 6.4
Math Boxes

1. Joe ordered 72 plants for his patio garden. Each pot holds 4 plants. How many pots are needed to hold all of the plants?

<table>
<thead>
<tr>
<th>pots</th>
<th>plants per pot</th>
<th>plants in all</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number model: ________________
Answer: ________________

2. Solve each open sentence.
   a. \((6 + 9) + (3 \times A) = 30\) \(A = \) ______
   b. \(24 \div 8 = 21 \div B\) \(B = \) ______
   c. \(72 = (2 \times C) \times 9\) \(C = \) ______
   d. \(6.2 + 0.79 = D\) \(D = \) ______
   e. \(8.91 - E = 2.72\) \(E = \) ______

3. Use a paper-and-pencil algorithm to add or subtract.
   a. 0.37 + 0.26
   b. 2.9 + 5.01
   c. 6.79 - 6.55
   d. 7.80 - 3.65

4. How many centimeters are in 12 meters? Circle the best answer.
   A. 0.12
   B. 1.2
   C. 120
   D. 1,200

5. Circle the fractions equivalent to \(\frac{3}{4}\).
   \[
   \frac{8}{16} \quad \frac{5}{6} \quad \frac{6}{12}
   \]
   \[
   \frac{2}{3} \quad \frac{12}{24} \quad \frac{8}{15}
   \]
Math Boxes

1. Insert parentheses to make each number sentence true.
   a. \(15 + 5 \times 6 = 120\)
   b. \(7 + 9 \times 2 = 25\)
   c. \(77 = 1 + 6 \times 6 + 5\)

2. Draw a line segment that is 2 inches long. Mark and label the following inch measurements on the line segment:
   \(\frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{2}, \text{ and } 2\)

3. The Sports Boosters raised $908 at their annual chili supper. Four athletic teams will share the money equally.
   How much money will each team receive?
   Number model: __________________________
   Answer: __________

   \(66 \times 62 = _________\)

5. Complete.
   a. \(9 \text{ m} = ______ \text{ cm}\)
   b. \(1,500 \text{ cm} = ______ \text{ m}\)
   c. \(350 \text{ cm} = ______ \text{ m}\)
   d. \(458 \text{ cm} = ______ \text{ m} ______ \text{ cm}\)
   e. \(3.2 \text{ m} = ______ \text{ cm}\)

6. a. Shade \(\frac{1}{2}\) of the square.
   b. Shade \(\frac{2}{3}\) of the square.
Making a Full-Circle Protractor

There are 360 marks around the circle. They divide the edge of the circle into 360 small spaces. Twelve of the marks are longer than the rest. They are in the same positions as the 12 numbers around a clock face. Your teacher will tell you how to label the 12 large marks on the circle.
Clock Angles

Use the clock below and the full-circle protractor on journal page 152 to help you answer the questions.

1. How many minutes and how many degrees does the minute hand move
   a. from 3:00 to 4:00? ________ minutes ________
   b. from 7:00 to 7:45? ________ minutes ________
   c. from 8:15 to 8:45? ________ minutes ________
   d. from 6:30 to 6:50? ________ minutes ________
   e. from 5:15 to 5:30? ________ minutes ________
   f. from 1:00 to 1:10? ________ minutes ________
   g. from 12:00 to 12:05? ________ minutes ________
   h. from 5:00 to 5:01? ________ minutes ________

2. How many degrees does the hour hand move
   a. in 1 hour? ________
   b. in \(\frac{1}{2}\) hour? ________
   c. in 10 minutes? ________

3. Explain how you solved Problem 2c.
1. Make a bar graph to display the information given in the table above.

2. Why might it be important to know what percent of the population of a country is 0 through 14 years of age?
Use your full-circle protractor to measure each angle.

1. \(\angle C\) measures _______°.

2. \(\angle D\) measures _______°.

3. \(\angle F\) measures _______°.

4. \(\angle E\) measures _______°.

5. Without using your full-circle protractor, give the measure of the reflex angle in Problem 3 (the part not marked by the blue arrow). Explain your answer.
1. Ms. Kawasaki’s fourth grade class made a circle graph to show students’ favorite days of the week.

   a. Which day of the week is the least favorite in Ms. Kawasaki’s classroom?

      ________________

   b. About what fraction of the students prefer Saturday?

      ________________

   Favorite Day of the Week

2. Juan talked on the phone an average of 34 minutes per week for 1 whole year. About how many minutes did Juan spend on the phone in 1 year?

   Number model: __________________________

   Answer: ___________ minutes

3. Divide with a paper-and-pencil algorithm. Write the remainder as a fraction.

   \[ \frac{883}{7} = \] ________________

4. Write <, >, or = to make each number sentence true.

   a. 420,000,000 _____ four hundred twenty million

   b. 65,000,000 _____ 92,000,000

   c. four hundred thousand _____ \(10^4\)

   d. \(10^2\) _____ 1,000

5. For this spinner, what color would you be most likely to land on?

   ________________
Math Message

Use a straightedge to draw the following angles. Do not use a protractor.

- $\angle A$: any angle less than $90^\circ$
- $\angle B$: any angle more than $90^\circ$ and less than $180^\circ$
- $\angle C$: any angle more than $180^\circ$

$\angle A$ is called an **acute angle**.  $\angle B$ is called an **obtuse angle**.  $\angle C$ is called a **reflex angle**.

Measuring Angles with a Protractor

Write whether the angle is acute or obtuse. Then measure it as accurately as you can.

$\angle SDE$ is ________.  $\angle COR$ is _________.  $\angle RTV$ is _________.

$\angle SDE$ is about ________°.  $\angle COR$ is about ________°.  $\angle RTV$ is about ________°.
1. Draw a 35° angle, using line segment $GH$ as one of its sides.

2. Draw a 150° angle, using ray $CD$ as one of its sides.

3. Draw a 60° angle, using ray $EF$ as one of its sides.

4. Draw a 15° angle, using ray $AB$ as one of its sides.

5. Draw a 330° angle, using ray $IJ$ as one of its sides.
1. Insert parentheses to make each number sentence true.
   a. \(12 = 15 - 2 + 1\)
   b. \(66 - 16 \times 4 = 200\)
   c. \(49 = 4 + 3 \times \frac{42}{6}\)

2. Draw a line segment that is 2 inches long. Mark and label the following inch measurements on the line segment:
   \(\frac{1}{4}, \frac{3}{4}, 1, 1\frac{1}{4}\) and \(1\frac{1}{2}\)

3. Six classrooms collected newspapers for one week. If they collected a total of 582 newspapers by the end of the week, on average about how many newspapers did each class collect?
   Number model: ______________
   Answer: __________ newspapers

   \(67 \times 34 = \underline{\phantom{0000}}\)

5. How many centimeters are in 9.7 meters?
   Circle the best answer.
   A. 907
   B. 900.7
   C. 970
   D. 9,700

6. Circle the square that has \(\frac{1}{3}\) shaded.
   A.  
   B.  


1. Name the ordered number pair for each point plotted on the coordinate grid.

   A (__, __)
   B (__, __)
   C (__, __)
   D (__, __)
   E (__, __)

2. Complete the “What’s My Rule?” table and state the rule.

<table>
<thead>
<tr>
<th>Rule</th>
<th>in</th>
<th>out</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>8.5</td>
<td></td>
</tr>
<tr>
<td>7.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. \( \angle EDF \) is ________ (acute or obtuse).

   Measure of \( \angle EDF = \) __________.

4. Cross off the names that do not belong in the name-collection box below.

<table>
<thead>
<tr>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>81 − 49</td>
</tr>
<tr>
<td>9 \times 4</td>
</tr>
<tr>
<td>(5 \times 6) + 2</td>
</tr>
<tr>
<td>98 \div 3</td>
</tr>
<tr>
<td>10 + 15 + 7</td>
</tr>
</tbody>
</table>

5. Round to the nearest hundred-thousand.

   a. 9,540,234
   b. 37,609,034
   c. 78,291,554
   d. 290,696,332

6. Fill in the missing fractions on the number line.

   __ __ __
A Map of the Island of Ireland

Bantry  B-1  Dublin  F-4  Lahinch  B-4  Omagh  E-7  
Belfast  F-7  Dundalk  F-6  Larne  F-7  Tralee  B-2  
Carlow  E-3  Galway  C-4  Limerick  C-3  Tuam  C-5  
Castlebar  B-6  Gort  C-4  Mullingar  E-5  Westport  B-5  
Derry  E-8  Kilkee  B-3  Navan  E-5  Wicklow  F-4  

0 50 100 150 200 250 Miles

0 50 100 150 200 250 Kilometers

Belmullet
Ballina
Enniscorthy
Tipperary
Cork
Kilmore
Rosslare Harbor
Waterford
New Ross
Newcastle
Dungarvan
Dungannon
Drogheda
Newry
Portadown
Belfast
Ballymena
Ballymena
Coleraine
Larne
Portadown
Dungannon
Omagh
Letterkenny
Donegal
Dingle
Killarney
Kenmare
Mallow
Mallow
Macroom
Cahersiveen
Bantry
Skibbereen
Clonakilty
Kilkee
Tuam
Clifden
Westport
Navan
Navan
Dundalk
Dundalk
Armagh
Armagh
Newry
Newry
Drogheda
Newcastle
Wicklow
Wicklow
Dundalk
Dundalk
Portadown
Portadown
Belfast
Belfast
Bangor
Bangor
Coleraine
Coleraine
Larne
Larne
Portadown
Portadown
Belfast
Belfast
Bangor
Bangor
Coleraine
Coleraine
Larne
Larne
Portadown
Portadown
Belfast
Belfast
S
W
E
N
Use the campground map on journal page 162 to complete the following:

1. Suppose you hiked along the lake trail from the fishing dock to the parking lot. Estimate the distance you hiked. About ____________ km

2. The ranger made her hourly check. She started at the ranger station. She drove northwest and then north on Gravel Road to County Road. She turned east onto County Road and drove past the parking lot and the camping area. After she passed the canoe rental, she turned right onto Gravel Road and drove back to the ranger station. About what distance did she drive? About ____________ km

3. Estimate the distance around Blue Lake. About ____________ km

4. You are planning to hike from the camping area to the parking lot. You will stay on the roads or trails. You want to hike at least 5 kilometers.
   a. Plan your route. Then draw it on the map with a colored pencil or crayon.
   b. Estimate the distance. About ____________ km

5. Use the ordered number pairs to locate each item on the map. Mark a dot at the location. Next to the dot, write the letter given for the feature.

<table>
<thead>
<tr>
<th>Location</th>
<th>Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>parked car</td>
<td>(5,9)</td>
</tr>
<tr>
<td>boat</td>
<td>(3\frac{1}{2},8)</td>
</tr>
<tr>
<td>swing set</td>
<td>(8,11)</td>
</tr>
<tr>
<td>hikers</td>
<td>(10.5,6.5)</td>
</tr>
<tr>
<td>farmhouse</td>
<td>(\frac{1}{2},7)</td>
</tr>
</tbody>
</table>
Locating Places on Regional Maps

Use the maps on pages 282–293 in the Student Reference Book to answer Problems 1–3.

1. Record the continent in which each city is located.
   a. Pretoria, South Africa (Region 1)
   b. London, England (Region 2)
   c. La Paz, Bolivia (Region 3)
   d. Dhaka, Bangladesh (Region 4)
   e. Washington, D.C., USA (Region 5)

2. Find the approximate latitude and longitude of each city. Record the degrees and circle the correct direction.
   a. Pretoria, South Africa latitude ___ °N or ___ °S; longitude ___ °E or ___ °W
   b. London, England latitude ___ °N or ___ °S; longitude ___ °E or ___ °W
   c. La Paz, Bolivia latitude ___ °N or ___ °S; longitude ___ °E or ___ °W
   d. Dhaka, Bangladesh latitude ___ °N or ___ °S; longitude ___ °E or ___ °W
   e. Washington, D.C., USA latitude ___ °N or ___ °S; longitude ___ °E or ___ °W

3. Each degree of latitude that you travel north or south from the equator is equal to about 70 miles. About how many miles from the equator is each city?
   a. Pretoria, South Africa About ________ miles
   b. London, England About ________ miles
   c. La Paz, Bolivia About ________ miles
   d. Dhaka, Bangladesh About ________ miles
   e. Washington, D.C., USA About ________ miles
1. Cindy received $40 from her aunt and uncle. She drew a circle graph to show how she will use the money.
   
   a. How much will she save?
      ______
   
   b. How much will be spent on clothes?
      ______
   
   c. On movies?
      ______

2. Mrs. Moy’s students are folding paper cranes for an art project. Each of her 27 students is assigned to make at least 15 paper cranes. What is the least number of cranes the class will have for the project?

   Number model: ______________________

   Answer: ______ paper cranes

3. Divide with a paper-and-pencil algorithm. Write the remainder as a fraction.

   \[ \frac{598}{3} = ______ \]

4. Which number sentence is true? Circle the best answer.

   A. \(33,000,000 < 33,000\)
   
   B. \(5,200,000 > 9\text{ million}\)
   
   C. \(10^4 = 10,000\)
   
   D. six hundred thousand \(= 10^6\)

5. For this spinner, which color would you be least likely to land on?

   _____________
LESSON 6.10
Partial-Quotients Division

1. Raul baked 96 cupcakes. He wants to divide them evenly among 3 bake sale tables. How many cupcakes should he put on each table?

   Number model: _________________________
   Answer: ________ cupcakes
   How many cupcakes will be left over?
   ______ cupcakes

2. The library has boxes to store 132 videotapes. Each box holds 8 tapes. How many boxes will be completely filled?

   Number model: _________________________
   Answer: ________ boxes
   How many videotapes will be left over?
   ______ videotapes

3. The teacher divided 196 note cards evenly among 14 students. How many note cards did each student get?

   Number model: _________________________
   Answer: ________ note cards
   How many note cards were left over?
   ______ note cards

4. There are 652 students at a school. The auditorium has rows with 22 seats each. How many rows would be completely filled if all the students attend an assembly?

   Number model: _________________________
   Answer: ________ rows
   How many students would be left over?
   ______ students
5. $18 \overline{)864}$  Answer: __________

6. $509 \div 37 = ________$

**Try This**

7. $4,872 \div 24 = ________$

8. $3,315 \div 36 = ________$

9. There are _________ players in the league.  
   (Write a number greater than 300.)

   There are _________ players on each team.  
   (Write a number between 11 and 99.)

   How many teams can be made?

   Number model: ________________________________

   Answer: _________ teams

   How many players are left over?

   _________ players
1. Name the ordered number pair for each point plotted on the coordinate grid.
   - **A** (___, ___)
   - **B** (___, ___)
   - **C** (___, ___)
   - **D** (___, ___)
   - **E** (___, ___)

2. Complete the “What’s My Rule?” table and state the rule.
   - **Rule**
     - | **in** | **out** |
     - | 3.66 | 7.04 |
     - | 0.42 | 3.80 |
     - | 8.73 | 12.66 |

3. \( \angle NMO \) is ________ (acute or obtuse).

4. Cross out the names that do not belong in the name-collection box below.

   - **48**
     - \((2 \times 3) \times 8\)
     - \(100 - 62\)
     - \(18 + 13 + 17\)
     - \(12 \times 4\)
     - \(184 \div 4\)

5. Round 451,062 to the nearest thousand. Circle the best answer.
   - **A.** 500,000
   - **B.** 451,000
   - **C.** 451,100
   - **D.** 452,000

6. Fill in the missing fractions on the number line.
   - ___ ___ ___ ___ ___
1. Fill in the missing fractions on the number lines.

   a. \[ \frac{2}{5} \]
      \[ \frac{1}{5} \]
      \[ \frac{2}{5} \]

   b. \[ \frac{1}{2} \]
      \[ \frac{1}{2} \]
      \[ \frac{1}{2} \]
      \[ \frac{1}{2} \]
      \[ \frac{1}{2} \]

2. Draw 12 balloons. Circle \( \frac{5}{12} \) of the balloons. Mark X on \( \frac{1}{4} \) of the balloons.

3. Write five names for \( \frac{1}{4} \).

4. a. Shade \( \frac{5}{6} \) of the hexagon.

   b. Shade \( \frac{2}{3} \) of the hexagon.

5. Design a spinner such that it is more likely that you will land on red than on green.
## My Route Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Country</th>
<th>Capital</th>
<th>Air distance from last capital</th>
<th>Total distance traveled so far</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>U.S.A.</td>
<td>Washington, D.C.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Egypt</td>
<td>Cairo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Itinerary
Washington, D.C., to Cairo, Egypt
Cairo to Budapest, Hungary
Budapest to Brasilia, Brazil
Brasilia to Beijing, China
Beijing to Mexico City, Mexico
Mexico City to Washington, D.C.
LESSON 3.6

My Country Notes

A. Facts about the country

_________________________ is located in ________________________.

name of country           name of continent

1. It is bordered by ________________________________
countries, bodies of water

2. Population: ________________  Area: ________________ square miles

3. Languages spoken: ________________________________

4. Monetary unit: ________________________________

5. Exchange rate (optional): 1 ______________________ = ______________________

B. Facts about the capital of the country

_________________________  Population: ________________________________

name of capital

1. When it is noon in my hometown, it is ______ in ________________________.

   time (A.M. or P.M.?)           name of capital

2. In ______/_______, the average high temperature in ________________________

   month   month

   is about __________°F. The average low temperature is about __________°F.

3. What kinds of clothes should I pack for my visit to this capital? Why?

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

174
4. Turn to the Route Map found on journal pages 172 and 173. Draw a line from the last city you visited to the capital of this country.

5. If your class is using the Route Log, record the information on journal page 171 or *Math Masters*, page 421.

6. Can you find any facts on pages 302–305 in your *Student Reference Book* that apply to this country? For example, is one of the 10 tallest mountains in the world located in this country? List all the facts you can find.

C. My impressions about the country

Do you know anyone who has visited or lived in this country? If so, ask that person for an interview. Read about the country’s customs and about interesting places to visit there. Use encyclopedias, travel books, the travel section of a newspaper, or library books. Try to get brochures from a travel agent. Then describe below some interesting things you have learned about this country.
A. Facts about the country

__________________________ is located in ____________________________.

name of country name of continent

1. It is bordered by ____________________________
countries, bodies of water

__________________________.

2. Population: ________________ Area: ________________ square miles

3. Languages spoken: ____________________________

__________________________

4. Monetary unit: ____________________________

5. Exchange rate (optional): 1 ________________ = ________________

B. Facts about the capital of the country

__________________________ Population: ____________________________

name of capital

1. When it is noon in my hometown, it is ________ in ____________________________.
time (A.M. or P.M.?) name of capital

2. In ________/_______, the average high temperature in ____________________________

month month name of capital

is about ___________ °F. The average low temperature is about ___________ °F.

3. What kinds of clothes should I pack for my visit to this capital? Why?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
4. Turn to the Route Map found on journal pages 172 and 173. Draw a line from the last city you visited to the capital of this country.

5. If your class is using the Route Log, record the information on journal page 171 or Math Masters, page 421.

6. Can you find any facts on pages 302–305 in your Student Reference Book that apply to this country? For example, is one of the 10 tallest mountains in the world located in this country? List all the facts you can find.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

C. My impressions about the country

Do you know anyone who has visited or lived in this country? If so, ask that person for an interview. Read about the country’s customs and about interesting places to visit there. Use encyclopedias, travel books, the travel section of a newspaper, or library books. Try to get brochures from a travel agent. Then describe below some interesting things you have learned about this country.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
A. Facts about the country

__________________________ is located in ________________________.
   name of country          name of continent
1. It is bordered by ____________________________________________
   countries, bodies of water
   ____________________________________________________________.

2. Population: _______________       Area: _______________ square miles

3. Languages spoken: ____________________________________________
   ____________________________________________________________

4. Monetary unit: ______________________________________________

5. Exchange rate (optional): 1 _________________ = _________________

B. Facts about the capital of the country

__________________________       Population: _______________________
   name of capital

1. When it is noon in my hometown, it is ____________ in ________________________.
   time (A.M. or P.M.?)       name of capital

2. In ___________/___________, the average high temperature in ________________________
   month    month
   name of capital
   is about _____________°F. The average low temperature is about _____________°F.

3. What kinds of clothes should I pack for my visit to this capital? Why?

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
4. Turn to the Route Map found on journal pages 172 and 173. Draw a line from the last city you visited to the capital of this country.

5. If your class is using the Route Log, record the information on journal page 171 or Math Masters, page 421.

6. Can you find any facts on pages 302–305 in your Student Reference Book that apply to this country? For example, is one of the 10 tallest mountains in the world located in this country? List all the facts you can find.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

C. My impressions about the country

Do you know anyone who has visited or lived in this country? If so, ask that person for an interview. Read about the country’s customs and about interesting places to visit there. Use encyclopedias, travel books, the travel section of a newspaper, or library books. Try to get brochures from a travel agent. Then describe below some interesting things you have learned about this country.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
My Country Notes

A. Facts about the country

_____________________________ is located in ________________________________.
name of country name of continent

1. It is bordered by ____________________________________________________________
countries, bodies of water
__________________________________________________________________________.

2. Population: ________________ Area: ________________ square miles

3. Languages spoken: __________________________________________________________
__________________________________________________________________________

4. Monetary unit: _____________________________________________________________

5. Exchange rate (optional): 1 ______________________ = _________________________

B. Facts about the capital of the country

_____________________________ Population: _________________________________
name of capital

1. When it is noon in my hometown, it is ___________ in _________________________.
time (A.M. or P.M.?) name of capital

2. In __________/__________, the average high temperature in _____________________
month month name of capital
is about _____________°F. The average low temperature is about _____________°F.

3. What kinds of clothes should I pack for my visit to this capital? Why?
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________

_________________________________________________________________________
4. Turn to the Route Map found on journal pages 172 and 173. Draw a line from the last city you visited to the capital of this country.

5. If your class is using the Route Log, record the information on journal page 171 or Math Masters, page 421.

6. Can you find any facts on pages 302–305 in your Student Reference Book that apply to this country? For example, is one of the 10 tallest mountains in the world located in this country? List all the facts you can find.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

C. My impressions about the country

Do you know anyone who has visited or lived in this country? If so, ask that person for an interview. Read about the country’s customs and about interesting places to visit there. Use encyclopedias, travel books, the travel section of a newspaper, or library books. Try to get brochures from a travel agent. Then describe below some interesting things you have learned about this country.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________