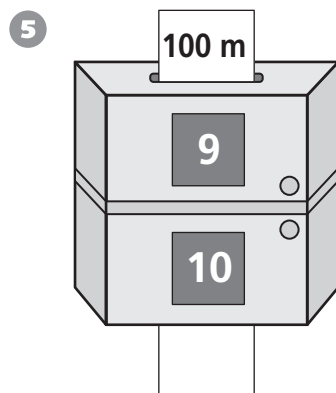
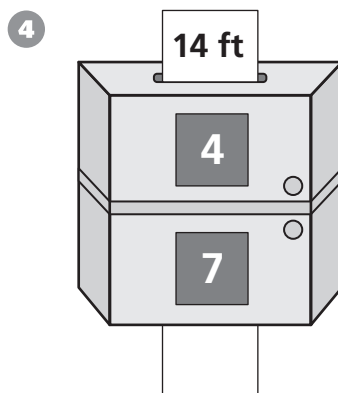
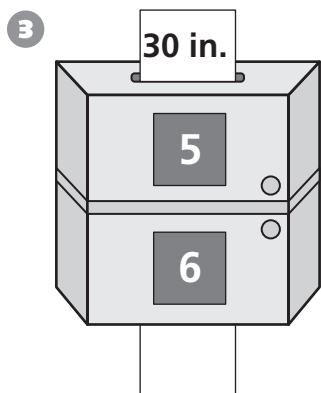
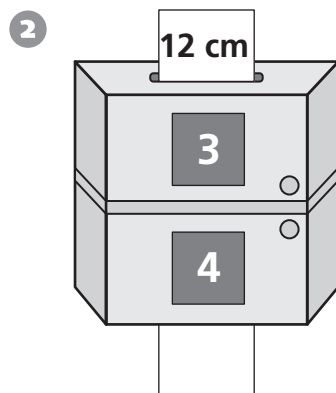
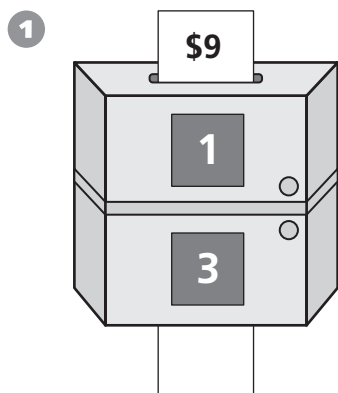
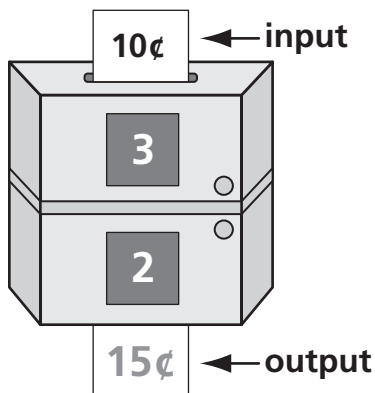


# Investigating the Result of Two Operations

Write the outputs.

**Example:**



## Test Prep

- 6 What are all the common factors of 24 and 36?  
 A. 1, 2, 4, 24, 36    B. 1, 2, 3, 6, 12    C. 1, 2, 3, 4, 12    D. 1, 2, 3, 4, 6, 12
- 7 Which group shows common multiples of 6 and 4?  
 A. 1, 6, 4, 12    B. 36, 12, 24    C. 1, 12, 18    D. 12, 18, 24, 36

# Investigating the Order of Two Operations

Record the outputs.

1

18 cm
× 8
÷ 2

2

24 hr
× 6
÷ 4

3

72 yd
× 9
÷ 8

4

\$60
× 12
÷ 20

Record the missing numbers.

5

12
× 9
÷ <input type="text"/>
12

6

21
× <input type="text"/>
÷ 7
39

7

16
× 3
÷ <input type="text"/>
12

8

48
× <input type="text"/>
÷ 12
16



## Test Prep

- 9 If you multiply 12 by 3 and divide the result by 4, which statement is NOT true?
- A. You can either multiply 12 by 3 first or divide 12 by 4 first and still get the correct answer.
  - B. The correct answer is 9.
  - C. You can divide 12 by 4 and then multiply the result by 3 to get the correct answer.
  - D. The correct answer is 4.

# Finding Equivalent Fractions

- Check (✓) the fraction machines that produce the result shown.
- Cross out (✗) the fraction machines that do not.
- Fill in the boxes on the left with the smallest numbers that produce the result shown.

**1**

\$36

$\times$

---

$\div$

\$12

$\times$  4

$\times$  5

$\times$  9

$\times$  2

---

$\div$  12

$\div$  6

$\div$  3

$\div$  6

$\times$  1

$\times$  3

$\times$  2

$\times$  3

$\div$  3

$\div$  9

$\div$  3

$\div$  6

**2**

20 oz

$\times$

---

$\div$

5 oz

$\times$  3

$\times$  1

$\times$  3

$\times$  8

---

$\div$  9

$\div$  4

$\div$  12

$\div$  2

$\times$  2

$\times$  4

$\times$  5

$\times$  2

$\div$  8

$\div$  16

$\div$  6

$\div$  3

## Test Prep

**3** Mackenzie used 12 feet of ribbon to wrap a gift. Tyler used twice as much ribbon to wrap 4 small gifts. He used the same amount of ribbon for each gift. How much ribbon did Tyler use for each gift?

A. 24 feet      C. 6 feet  
B. 8 feet      D. 4 feet

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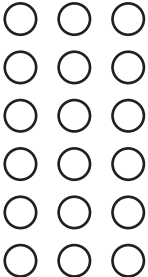
P28 Practice Book

Chapter 4

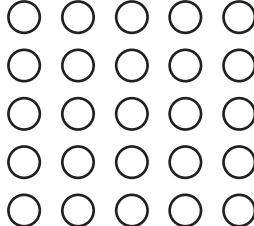
# Equivalent Fractions Using Dot Sketches

Use dot sketches to find equivalent fractions.

**1**

$$\frac{5}{6} = \frac{\square}{18}$$


**2**

$$\frac{3}{5} = \frac{\square}{25}$$


Find any equivalent fraction with a dot sketch.

**3**

$$\frac{2}{7} = \frac{\square}{\square}$$

**4**

$$\frac{7}{8} = \frac{\square}{\square}$$

**5**

$$\frac{2}{5} = \frac{\square}{\square}$$

**6**

$$\frac{4}{7} = \frac{\square}{\square}$$


## Test Prep

**7** Which fraction is equivalent to  $\frac{2}{9}$ ?

- A.  $\frac{1}{18}$
- B.  $\frac{1}{3}$
- C.  $\frac{6}{27}$
- D.  $\frac{9}{2}$

**8** What fraction is the simplest form of  $\frac{15}{25}$ ?

- A.  $\frac{6}{10}$
- B.  $\frac{3}{5}$
- C.  $\frac{12}{20}$
- D.  $\frac{9}{15}$

# Strategies for Comparing Fractions

Compare the fractions. Write  $<$ ,  $>$ , or  $=$ .

1 How did you figure it out? Choose one or more.

$\frac{11}{12}$  ○  $\frac{3}{8}$

Compared each fraction to  $\frac{1}{2}$ .

Figured out which fraction is closer to 1.

Recognized equivalent fractions.

Something else: \_\_\_\_\_

2 How did you figure it out? Choose one or more.

$\frac{5}{6}$  ○  $\frac{4}{10}$

Compared each fraction to  $\frac{1}{2}$ .

Figured out which fraction is closer to 1.

Recognized equivalent fractions.

Something else: \_\_\_\_\_

3 How did you figure it out? Choose one or more.

$\frac{3}{4}$  ○  $\frac{6}{8}$

Compared each fraction to  $\frac{1}{2}$ .

Figured out which fraction is closer to 1.

Recognized equivalent fractions.

Something else: \_\_\_\_\_



## Test Prep

- 4 Damon wrote this riddle. Find the answer to the riddle. Explain the strategy you used.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



I am a fraction equivalent to  $\frac{2}{4}$ .  
The sum of my numerator and  
my denominator is 21.  
What fraction am I?

# Comparing Fractions Using Common Denominators

For each pair of fractions:

- Write an equivalent pair of fractions, but with a common denominator.
- Use dot sketches to make equivalent fractions, if you wish.
- Write  $<$ ,  $>$ , or  $=$  between the fractions.

**Example:**

$\frac{5}{8}$	$\frac{3}{4}$
	
$\frac{5}{8} < \frac{6}{8}$	

$\frac{1}{4}$	$\frac{2}{6}$
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="font-size: 2em; margin: 0 10px;">○</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div>	

$\frac{2}{3}$	$\frac{3}{5}$
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="font-size: 2em; margin: 0 10px;">○</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div>	

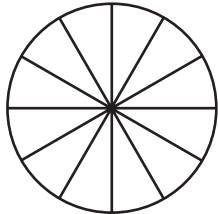
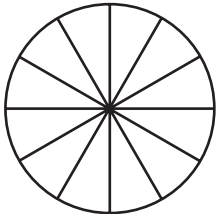
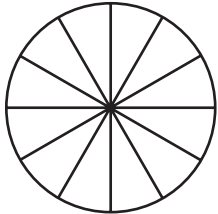
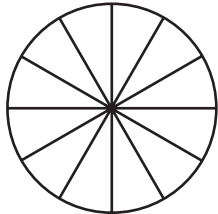
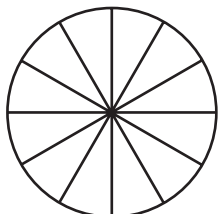
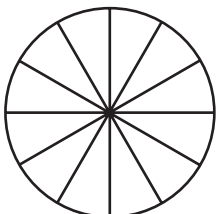
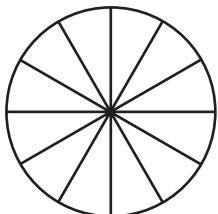
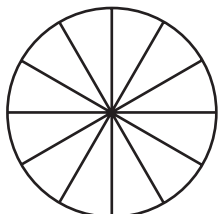
$\frac{5}{6}$	$\frac{6}{8}$
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="font-size: 2em; margin: 0 10px;">○</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div>	

$\frac{7}{8}$	$\frac{2}{3}$
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="font-size: 2em; margin: 0 10px;">○</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div>	

$\frac{3}{4}$	$\frac{4}{5}$
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="font-size: 2em; margin: 0 10px;">○</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> </div>	

# Area Models and Number Lines

Shade the sketches for the fractions.

<p><b>1</b></p>  <p><math>\frac{1}{4}</math></p>	<p><b>2</b></p>  <p><math>\frac{4}{6}</math></p>	<p><b>3</b></p>  <p><math>\frac{2}{6}</math></p>	<p><b>4</b></p>  <p><math>\frac{2}{12}</math></p>
<p><b>5</b></p>  <p><math>\frac{1}{3}</math></p>	<p><b>6</b></p>  <p><math>\frac{3}{12}</math></p>	<p><b>7</b></p>  <p><math>\frac{1}{6}</math></p>	<p><b>8</b></p>  <p><math>\frac{2}{3}</math></p>

Write the fractions from Problems 1–8 as pairs of equivalent fractions.

<p><b>9</b></p> <table style="margin: auto;"> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td style="padding: 0 10px;">=</td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td></td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> </table>		=					<p><b>10</b></p> <table style="margin: auto;"> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td style="padding: 0 10px;">=</td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td></td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> </table>		=					<p><b>11</b></p> <table style="margin: auto;"> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td style="padding: 0 10px;">=</td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td></td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> </table>		=					<p><b>12</b></p> <table style="margin: auto;"> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td style="padding: 0 10px;">=</td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> <tr><td style="border: 1px solid black; width: 30px; height: 30px;"></td><td></td><td style="border: 1px solid black; width: 30px; height: 30px;"></td></tr> </table>		=				
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## Test Prep

**13** Jake hiked  $\frac{3}{4}$  mile around the pond. Marcia hiked  $\frac{3}{5}$  mile to the cabin. Who hiked farther? Explain how you know.

---



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# Numbers Greater Than 1

- 1 Write the numbers at their locations on the number line.  
If two numbers label the same point, write one above the line and the other below.

$\frac{7}{3}$

$\frac{13}{4}$

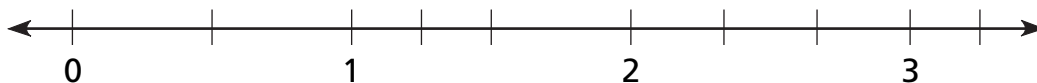
$2\frac{1}{3}$

$\frac{8}{3}$

$\frac{5}{4}$

$\frac{1}{2}$

$1\frac{1}{4}$



- 2 Solve the problem.

Small paper cups at the water machine hold  $\frac{1}{4}$  cup of water. Erika was very thirsty and filled her cup eleven times. How much water did she drink? Explain how you know.

---

---



## Test Prep

- 3 Katie has \$8 in her wallet. She has  $\frac{1}{2}$  of that amount in her pocket and  $\frac{1}{4}$  of that amount in her hand. How much money does she have in all? Explain how you know.

---

---



# Equivalent Fractions Greater Than 1

1 Draw lines to match the equivalent numbers.

$\frac{9}{8}$

$3\frac{2}{5}$

$2\frac{2}{8}$

$6\frac{8}{20}$

$6\frac{4}{10}$

$1\frac{2}{16}$

$\frac{18}{8}$

$3\frac{6}{15}$

Write equivalent fractions or mixed numbers.

2  $8\frac{1}{3} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

3  $6\frac{3}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

4  $\frac{38}{6} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

5  $\frac{43}{8} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$



## Test Prep

6 Look at the hexagon covered with 3 different shapes. Which statement is NOT true?

- A. The triangle is  $\frac{1}{3}$  of the hexagon.
- B. The trapezoid is  $\frac{1}{2}$  of the hexagon.
- C. The rhombus is  $\frac{1}{3}$  of the hexagon.
- D. The triangle is  $\frac{1}{6}$  of the hexagon.

