

# Working with Fractions

If this bar stands for 1 . . .



. . . then write the fraction that describes each of these groups of pieces.

Example: 

$\frac{1}{8}$	$\frac{1}{8}$
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 makes  $\frac{2}{8}$

1 

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
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 makes \_\_\_\_\_

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2 

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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 makes \_\_\_\_\_

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3 

$\frac{1}{3}$	$\frac{1}{3}$
---------------	---------------

 makes \_\_\_\_\_

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4 

$\frac{1}{4}$	$\frac{1}{4}$
---------------	---------------

 makes \_\_\_\_\_

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5 

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$
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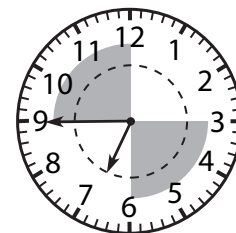
 makes \_\_\_\_\_



## Test Prep

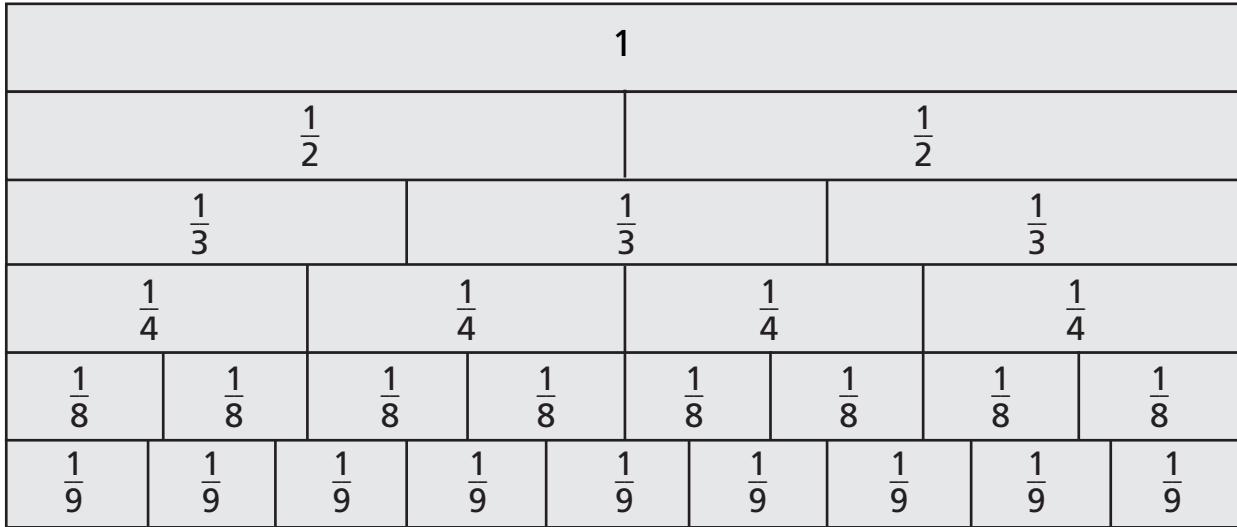
- 6 It is now 4:05 P.M. Alexis will eat dinner at the time shown on the clock. How long until Alexis eats dinner?

- A. 2 hours 40 minutes      C. 3 hours 40 minutes  
B. 2 hours 45 minutes      D. 6 hours 45 minutes



# Making Equivalent Fractions

Use the diagram to help you find the missing numbers.



1  $1 = \frac{3}{3} = \frac{\square}{9}$

$\frac{1}{3} = \frac{\square}{\square}$

$\frac{6}{9} = \frac{\square}{\square}$

2  $1 = \frac{2}{2} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{1}{2} = \frac{\square}{4} = \frac{\square}{\square}$

$\frac{1}{4} = \frac{\square}{8}$



## Test Prep

3 Cedric sorted his collection of pennies into stacks of 5 pennies each. He had 12 stacks of pennies. How many pennies did Cedric have in his collection? Explain how you found your answer.

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# Exploring Equivalent Fractions

- 1 When Carolyn takes her dog for a walk, he runs in circles around her. For each meter she walks, he runs 3 meters. Complete the chart describing the distances they go.

Meters Carolyn walks	$\frac{1}{3}$	$\frac{2}{6}$	$\frac{3}{\square}$	$\frac{10}{\square}$	$\frac{12}{\square}$	$\frac{\square}{33}$	$\frac{\square}{18}$	$\frac{\square}{60}$	$\frac{\square}{66}$
Meters her dog runs	3	6	$\square$	$\square$	$\square$	33	18	60	66

- 2 If 4 apples cost \$1.00, how much do other numbers of apples cost?

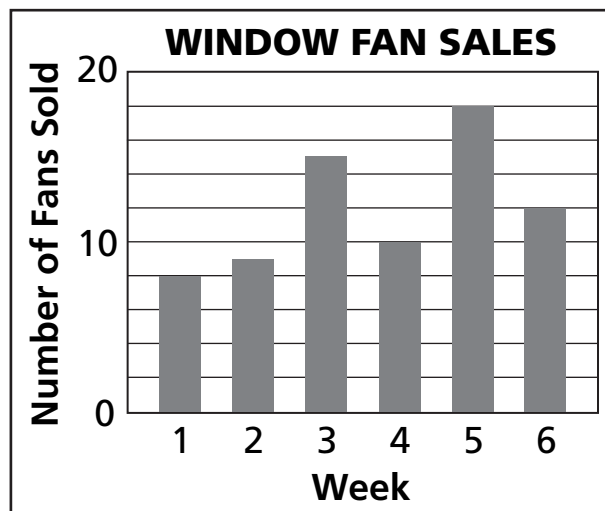
Number of apples	$\frac{4}{\$1.00}$	$\frac{8}{\square}$	$\frac{12}{\square}$	$\frac{1}{\square}$	$\frac{\square}{50¢}$	$\frac{5}{\square}$
Cost	\$1.00	$\square$	$\square$	$\square$	50¢	$\square$



## Test Prep

- 3 The manager of Harry's Hardware made a graph of the number of window fans sold during the first 6 weeks of spring. How many fans were sold during the last 3 weeks shown on the graph?

- A. 22                      C. 40  
B. 30                      D. 62



# Fractional Relationships in Context

Complete the chart.

1 Dave puts half of what he earns in the bank.

Amount put in the bank	\$1	<input type="text"/>	<input type="text"/>	\$5	\$10	\$25
Amount Dave earned	\$2	\$4	\$6	<input type="text"/>	<input type="text"/>	<input type="text"/>

2 One out of every four students walks to school.

Students that walk	1	<input type="text"/>	5	10	<input type="text"/>	<input type="text"/>
Total students	<input type="text"/>	8	<input type="text"/>	<input type="text"/>	48	100

3

$m$	8	6	<input type="text"/>	<input type="text"/>	<input type="text"/>	12	50
$3 \times m$	<input type="text"/>	<input type="text"/>	30	45	21	<input type="text"/>	<input type="text"/>



## Test Prep

4 Write the next two fractions in the pattern.  
Explain the rule.

$\frac{1}{2}, \frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}, \blacksquare, \blacksquare$

\_\_\_\_\_

\_\_\_\_\_

# Comparing Fractions in Context

Write the fraction of a dollar for each group of coins.



of a dollar



of a dollar



of a dollar



of a dollar



of a dollar



of a dollar



## Test Prep

7 During field day at school, Ms. Drew pinned a label to the shirt of each runner in a race. The package of safety pins she used contained 32 pins. Ms. Drew used 4 safety pins for each label. Which number sentence can be used to find how many labels Ms. Drew could pin to the runners' shirts?

A.  $32 \div 4 = \blacksquare$

C.  $32 + 4 = \blacksquare$

B.  $32 \times 4 = \blacksquare$

D.  $32 - 4 = \blacksquare$

# Comparing Fractions

Complete the table. Then compare the amounts using  $<$ ,  $>$ , or  $=$ .

1

Fraction of an Hour	Minutes
$\frac{1}{2}$	30
$\frac{1}{4}$	
$\frac{1}{6}$	
$\frac{2}{4}$	
$\frac{3}{4}$	
$\frac{5}{6}$	
$\frac{1}{3}$	
$\frac{1}{12}$	

2  $\frac{1}{2}$  of an hour  $>$   $\frac{1}{3}$  of an hour

3  $\frac{1}{2}$  of an hour  $\bigcirc$   $\frac{2}{4}$  of an hour

4  $\frac{1}{6}$  of an hour  $\bigcirc$   $\frac{5}{6}$  of an hour

5  $\frac{3}{4}$  of an hour  $\bigcirc$   $\frac{3}{6}$  of an hour

6  $\frac{3}{4}$  of an hour  $\bigcirc$   $\frac{5}{6}$  of an hour

7  $\frac{2}{4}$  of an hour  $\bigcirc$   $\frac{2}{3}$  of an hour

8  $\frac{4}{12}$  of an hour  $\bigcirc$   $\frac{4}{6}$  of an hour



## Test Prep

- 9 Wendy started biking at 2:35, and she rode for  $\frac{1}{2}$  of an hour. Then she cleaned her room for  $\frac{3}{4}$  of an hour. What time was it when Wendy finished cleaning her room? Explain how you found your answer.

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