### Name

# 1

One slice of this pizza costs 50¢.



How much does the whole pizza cost?

Unit Fraction Multiples

Name

### Try This

esso

- Use Fraction Circles to model the product.
- Use the fewest number of Fraction Circle pieces to help you write the product in simplest form whenever possible.





# For Problems 7–9, write the fraction as the product of a whole number and a unit fraction.

<b>7.</b> $\frac{4}{3}$	<u>4</u> <u>5</u> =	×	8.	<u>13</u> =	×	9.	<u>12</u> <u>12</u> =	×
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#### Challenge

If *a* is a whole number and  $\frac{1}{b}$  is a unit fraction, how do you express the product of  $a \times \frac{1}{b}$ ?

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Use Fraction Circles to build the model. Fill in the blanks in the number sentence. Write the product as a mixed number in simplest form.



Use Fraction Circles to model the problem. Sketch the model. Write the product as a fraction and as a mixed number in simplest form.



Write the product as a mixed number in simplest form.



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Hands-On Standards® Fractions

#### Name

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Mental Math!

- **a.** A taxi charges 50¢ for  $\frac{1}{7}$  of a mile. What would the cost for one mile be?
- **b.** A different taxi charges \$1 for the first mile and \$1 for every  $\frac{1}{7}$  mile after that. How much for a two-mile ride?

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Name \_

**Explore Tower Times** 

## **Try This**

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- Use Fraction Towers and Fraction Number Line 4 to model problems 1-6.
- Write the product in simplest form.
- Try to solve problems 7–8 without building models.



- **2.**  $5 \times \frac{1}{3} = \_\_\_= 1\_\_\_$ **1.**  $4 \times \frac{1}{6} = \frac{1}{6} = \frac{1}{6}$
- **3.**  $6 \times \frac{1}{4} = \frac{1}{4} = 1_{\frac{1}{4}} = 1_{\frac{1}{4}} = 1_{\frac{1}{4}}$
- **5.**  $2 \times \frac{5}{12} = \_\_\_= \_\_$
- 7.  $3 \times \frac{3}{8} = \frac{1}{8} = 1$

- **4.**  $3 \times \frac{3}{10} =$  \_\_\_\_\_
- **6.**  $5 \times \frac{2}{10} = \_\_\_=$
- **8.**  $4 \times \frac{2}{3} = \_\_\_= \_\_$



Use Fraction Towers and Fraction Number Line 4 to build the model. Fill in the blanks and write the product in simplest form.



Use Fraction Towers and Fraction Number Line 4 to model the problem. Sketch your model. Fill in the blanks and write the product in simplest form.

**2.**  $4 \times \frac{3}{8} =$ \_\_\_\_\_  $\times$ \_\_\_\_ =\_\_\_\_ =\_\_\_\_ =\_\_\_\_

Write the product in simplest form.

**3.** 
$$2 \times \frac{4}{10} = \_\_\_= \_\_\_$$

**5.**  $2 \times \frac{2}{3} = \_\_\_= \_\_$ 







### **Try This**

- Write a number sentence for each problem.
- Express the answer in simplest form.
- Use Fraction Circles, Fraction Squares, or Fraction Towers, if needed.
- **1.** Laurie needs 2 pieces of ribbon. Each piece needs to be  $\frac{7}{8}$  inch long. How many inches of ribbon does Laurie need?

\_\_\_\_ × \_\_\_\_ = \_\_\_\_ = \_\_\_\_ = \_\_\_\_ inches

- **2.** Josiah walked  $\frac{7}{12}$  mile each day for 3 days. How far did Josiah walk?
- **3.** The length of one side of a square is  $\frac{3}{10}$  meter. What is the perimeter of the square?
- **4.** The length of one side of an equilateral triangle is  $\frac{5}{12}$  yard. What is the perimeter of the triangle?
- 5. A park is on a rectangular plot of land that is 5 miles long and  $\frac{3}{8}$  mile wide. What is the area of the park in square miles?
- 6. Selena needs to water 6 new plants in her garden. If she uses  $\frac{4}{5}$  gallon of water on each plant, how much water will she use in all?
- 7. Lomas skated for  $\frac{3}{4}$  hour each day for 5 days. How long did he skate?
- **8.** A serving of pudding is  $\frac{2}{3}$  cup. If Margo made 12 servings for her friends, how much pudding did she make?

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**3** Multiple Stories

# Use Fraction Circles to model the story. Write a multiplication sentence for the story. Write the answer.

1. Martin will make  $\frac{2}{3}$ -cup servings of pears for 4 children. How many cups of pears does he need in all?



Multiplication Number Sentence:

How many cups of pears does Martin need? \_\_\_\_\_ cups

#### Use Fraction Squares to model the story. Sketch your model. Write a multiplication sentence for the story. Write the answer.

**2.** Each lap around a track is  $\frac{3}{5}$  of a kilometer. Molly walked around the track 4 times. How far did Molly walk?

Multiplication Number Sentence:

How many kilometers did Molly walk? \_\_\_\_\_ kilometers

#### Solve the problem. Write a number sentence to show your solution.

- **3.** Mark filled a measuring cup with  $\frac{3}{4}$  of a cup of juice 3 times. What was the total amount of juice he poured into the measuring cup?
- **4.** Roberto baked a cake. He needed seven  $\frac{1}{4}$ -cup servings of banana. How much banana did Robert need to bake the cake?
- **5.** Carolina is making picture frames. Each frame uses  $\frac{4}{5}$  of a yard of wood. What is the total length of wood that Carolina will need to make 4 frames?