Name \_\_

### Use Fraction Circles to model the fractions shown. Write the addition sentences modeled.



Using Fraction Circles, model the fractions to find the sum. Sketch the models. Write an addition sentence to show the sum.

**2.**  $\frac{2}{5} + \frac{3}{10}$ 

## Find each sum. Simplify.



Name			

**Challenge!** Write instructions for how to find the sum in Problem 8.



vesso,

Name

Use Fraction Squares to model the fractions shown. Use Fraction Squares to find fractions with the same denominators. Write the fractions and then find the difference.



Using Fraction Squares, model the subtraction problem. Sketch the model. Write the difference.





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**Challenge!** Explain how you can use addition to check that you subtracted correctly. Draw a picture to help,

Use Fraction Circles to model each division problem. Write the problem as a fraction. Write the quotient as a mixed number.



Using Fraction Circles, model each division problem. Sketch the model. Write the problem as a fraction. Write the quotient as a mixed number.



Write each quotient as a mixed number.



Name	
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**Challenge!** Explain how knowing  $\frac{6}{5} \times 5 = 6$  can help you solve  $6 \div 5 = \frac{6}{5}$ .

4

# Use the model to solve the problem. Write the answer as an improper fraction and as a mixed number.

1. Sarah ran 7 miles in one week. Her younger brother ran  $\frac{3}{8}$  as far. How many miles did her brother run?



## Draw a model to solve the problem. Write the equation.

**2.** Jershom made 6 baskets in a basketball game. He got  $\frac{2}{5}$  as many rebounds as baskets. How many rebounds did Jershom get?



$$\frac{2}{5} \times 6 =$$
 \_\_\_\_\_ = \_\_\_\_ rebounds

Multiply to complete the equations.

Number and Operations–Fractions



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**Challenge!** Create a story context for the expression  $\frac{3}{8} \times 5$ , and solve the problem.

## Number and Operations—Fractions

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5

Name

## Use Fraction Squares to model the problem. Write the solution.

1. Alex wants to cover a bulletin board with cloth. The board measures  $\frac{2}{3}$  yard by  $\frac{1}{2}$  yard. What is the area of the bulletin board?



Using Fraction Squares, model the problem. Sketch the model. Write the multiplication sentence that shows the solution.

**2.** A frame measures  $\frac{5}{6}$  foot by  $\frac{3}{4}$  foot. What is the area of the frame?



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**Challenge!** Create a story context for the expression  $\frac{2}{3} \times \frac{4}{5}$ , and solve the problem.

Lesson

6

Use Fraction Towers to model the equivalent fractions. Complete the number sentence.



Using Fraction Towers, model each product. Sketch the model. Write a number sentence for each product.

3.	What is $\frac{1}{2}$ of $\frac{5}{6}$ ?	4.	What is $\frac{1}{3}$ of $\frac{3}{4}$ ?
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Find	each product.		
5.	$\frac{1}{2} \times \frac{1}{6}$	6.	$\frac{1}{2} \times \frac{2}{5}$
7.	$\frac{1}{5} \times \frac{5}{6}$	8.	$\frac{1}{2} \times \frac{3}{5}$
9.	$\frac{1}{3} \times \frac{6}{8}$	10.	$\frac{1}{2} \times \frac{3}{10}$

Na	am	e
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**Challenge!** Explain why  $\frac{1}{2} \times \frac{2}{3}$  is less than 1. Draw a picture to help.

Name \_\_\_

## Use Fraction Squares to model the fraction compared to 1. Complete each equation.



Using Fraction Squares, model the division. Sketch the models. Write the quotient.

**3.**  $\frac{1}{5} \div 2 =$ \_\_\_\_\_

## Find the quotient



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**Challenge!** What method do you use to divide a unit fraction by a whole number when you don't use the Fraction Squares? Why does it work?



Number and Operations—Fractions

Name \_

## Use Fraction Towers to model the problem. Write the quotient.

1. Hugo has 4 sheets of green card stock he wants to cut into Earth Day bookmarks. How many bookmarks can he make if each one is  $\frac{1}{8}$  of a sheet?



 $4 \div \frac{1}{8} =$ \_\_\_\_\_

#### Using Fraction Towers, model the problem. Sketch the model. Write the equation that shows the solution.

**2.** How many  $\frac{2}{3}$  foot pieces of fabric can be cut from 4 yards of fabric?

Divide.



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**Challenge!** Create a story that requires the expression  $8 \div \frac{2}{5}$ , and solve the problem.