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2.2 Dividing Fractions

For use with Activity 2.2

## Essential Question How can you divide by a fraction?

## 1 ACTIVITY: Dividing by a Fraction

Work with a partner. Write the division problem and solve it using a model.
a. How many two-thirds are in three?

The division problem is $\qquad$ .


How many groups of $\frac{2}{3}$ are in 3 ? $\qquad$

The remaining piece represents $\qquad$ of $\frac{2}{3}$.

So, there are $\qquad$ groups of $\frac{2}{3}$ in 3 .

So, $\qquad$ $\div$ $\qquad$ $=$ $\qquad$ .
b. How many halves are in five halves?

c. How many four-fifths are in eight?
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2.2 Dividing Fractions (continued)
d. How many one-thirds are in seven halves?
e. How many three-fourths are in five halves?

2 ACTIVITY: Using Tables to Recognize a Pattern
Work with a partner.
a. Complete each table.

## Division Table

| $8 \div 16$ |  |
| :---: | :--- |
| $8 \div 8$ |  |
| $8 \div 4$ |  |
| $8 \div 2$ |  |
| $8 \div 1$ |  |
| $8 \div \frac{1}{2}$ |  |
| $8 \div \frac{1}{4}$ |  |
| $8 \div \frac{1}{8}$ |  |

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### 2.2 Dividing Fractions (continued)

b. Describe the relationship between the numbers in the right column of the division table and the numbers in the right column of the multiplication table.
c. Describe the relationship between the shaded numbers in the division table and the shaded numbers in the multiplication table.
d. STRUCTURE Make a conjecture about how you can use multiplication to divide by a fraction.
e. Test your conjecture using the problems in Activity 1.

## What Is Your Answer?

3. IN YOUR OWN WORDS How can you divide by a fraction? Give an example.
4. How many halves are in a fourth? Explain how you found your answer.
