# Lesson 3: Interpreting and Computing Division of a Fraction by a 

## Fraction-More Models

Classwork

## Opening Exercise

Draw a model to represent $12 \div 3$.

How could we reword this question?

## Example 1

$\frac{8}{9} \div \frac{2}{9}$
Draw a model to show the division problem.

## Example 2

$\frac{9}{12} \div \frac{3}{12}$
Be sure to draw a model to support your answer.

## Example 3

$\frac{7}{9} \div \frac{3}{9}$
Be sure to create a model to support your answer.

## Exercises 1-6

For the following exercises, rewrite the division problem. Then, be sure to draw a model to support your answer.

1. How many fourths are in three fourths?

Draw a model to support your answer.

How are Example 2 and Exercise 1 similar?

How are the divisors and dividends related?

What conclusions can you draw from these observations?
2. $\frac{4}{5} \div \frac{2}{5}$
3. $\frac{9}{4} \div \frac{3}{4}$
4. $\frac{7}{8} \div \frac{2}{8}$ CORE
5. $\frac{13}{10} \div \frac{2}{10}$
6. $\frac{11}{9} \div \frac{3}{9}$ CORE

## Lesson Summary

When dividing a fraction by a fraction with the same denominator, we can use the general rule $\frac{a}{c} \div \frac{b}{c}=\frac{a}{b}$.

## Problem Set

For the following exercises, rewrite the division problem in words. Then, be sure to draw a model to support your answer.

1. $\frac{15}{4} \div \frac{3}{4}$
2. $\frac{8}{5} \div \frac{3}{5}$
