

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. $\frac{7}{8} \div \frac{2}{8}$

5. $\frac{13}{10} \div \frac{2}{10}$

6. $\frac{11}{9} \div \frac{3}{9}$