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.



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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.



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Exercises 1-6

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

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?



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$$2. \quad \frac{4}{5} \div \frac{2}{5}$$

3.
$$\frac{9}{4} \div \frac{3}{4}$$

4.
$$\frac{7}{8} \div \frac{2}{8}$$



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

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



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



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