Lesson 4: Interpreting and Computing Division of a Fraction by a

Fraction—More Models

Classwork

Opening Exercise

Write at least three equivalent fractions for each fraction below. Be sure to show how the two fractions are related.

a.

Example 1

Molly purchased $\frac{11}{8}$ cups of strawberries. If she eats $\frac{2}{8}$ cups per serving, how many servings does Molly have? Use a model to prove your answer.



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10/27/14



Example 2

Now imagine that Xavier, Molly's friend, purchased $\frac{11}{8}$ cups of strawberries. If he eats $\frac{3}{4}$ cups of strawberries per serving, how many servings will he have? Use a model to prove your answer.

Example 3

Find the quotient: $\frac{3}{4} \div \frac{2}{3}$. Use a model to show your answer.

Exercises 1-5

A model should be included in your solution.

$$1. \quad \frac{6}{2} \div \frac{3}{4}$$

$$2. \quad \frac{2}{3} \div \frac{2}{5}$$

$$3. \quad \frac{7}{8} \div \frac{1}{2}$$

$$4. \quad \frac{3}{5} \div \frac{1}{4}$$

$$5. \quad \frac{5}{4} \div \frac{1}{3}$$



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Problem Set

Draw a model to support your answer to the division questions.

- 1. $\frac{8}{9} \div \frac{4}{9}$
- 2. $\frac{9}{10} \div \frac{4}{10}$
- $3. \quad \frac{3}{5} \div \frac{1}{3}$
- $4. \quad \frac{3}{4} \div \frac{1}{5}$



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