

Lesson 5 & 6: Creating Division Stories

Classwork

Exercise 1

Using the same dividend and divisor, work with a partner to create your own story problem. You may use the same unit, but your situation must be unique. You could try another unit such as ounces, yards, or miles if you prefer.

Example 2

$$\frac{3}{4} \div \frac{1}{2}$$

Step 1: Decide on an interpretation.

Step 2: Draw a diagram.

Step 3: Find the answer.

Step 4: Choose a unit.

Step 5: Set up a situation based on the model.

Exercise 2

Using the same dividend and divisor, work with a partner to create your own story problem. You may use the same unit, but your situation must be unique. You could try another unit such as cups, yards, or miles if you prefer.

Lesson Summary

The method of creating division stories includes five steps:

Step 1: Decide on an interpretation (measurement or partitive). Today we used measurement division.

Step 2: Draw a model.

Step 3: Find the answer.

Step 4: Choose a unit.

Step 5: Set up a situation based on the model. This means writing a story problem that is interesting, realistic, and short. It may take several attempts before you find a story that works well with the given dividend and divisor.

Problem Set

Solve.

1. How many sixteenths are in $\frac{15}{16}$?
2. How many $\frac{1}{4}$ teaspoon doses are in $\frac{7}{8}$ teaspoon of medicine?
3. How many $\frac{2}{3}$ cups servings are in a 4 cup container of food?
4. Write a measurement division story problem for $6 \div \frac{3}{4}$.
5. Write a measurement division story problem for $\frac{5}{12} \div \frac{1}{6}$.
6. Fill in the blank to complete the equation. Then, find the quotient and draw a model to support your solution.
 - a. $\frac{1}{2} \div 5 = \frac{1}{\square} \text{ of } \frac{1}{2}$
 - b. $\frac{3}{4} \div 6 = \frac{1}{\square} \text{ of } \frac{3}{4}$