

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. $\frac{3}{4} \div 6 = \frac{1}{\square} \text{ of } \frac{3}{4}$
7. $\frac{4}{5}$ of the money collected from a fundraiser was divided equally among 8 grades. What fraction of the money did each grade receive?
8. Meyer used 6 loads of gravel to cover $\frac{2}{5}$ of his driveway. How many loads of gravel will he need to cover his entire driveway?

9. An athlete plans to run 3 miles. Each lap around the school yard is $\frac{3}{7}$ mile. How many laps will the athlete run?
10. Parks spent $\frac{1}{3}$ of his money on a sweater. He spent $\frac{3}{5}$ of the remainder on a pair of jeans. If he has \$36 left, how much did the sweater cost?