## Understand Decimal Division Patterns

**I Can** use patterns to help place the decimal point in a quotient.

## 🗄 UNLOCK the Problem

The Healthy Wheat Bakery uses 560 pounds of flour to make 1,000 loaves of bread. Each loaf contains the same amount of flour. How many pounds of flour does the bakery use in each loaf of bread?



You can use place-value patterns to help you find quotients. Dividing by 10, 100, or 1,000 is the same as multiplying by 0.1, 0.01, or 0.001.

## **One Way** Use place-value patterns.

Divide. 560 ÷ 1,000

Look for a pattern in these products and quotients.

 $560 \div 1 = 560$ 
 $560 \div 10 = 56.0$ 
 $560 \div 100 = 5.60$ 
 $560 \div 0.01 = 56,000$ 

560 ÷ 1,000 = 0.560

So, \_\_\_\_\_ pound of flour is used in each loaf of bread.

**1.** What do you notice about the quotients as you divide by 10, 100, and 1,000?

- Florida's B.E.S.T.
- Number Sense & Operations 5.NSO.2.4, 5.NSO.2.5

**CHAPTER 7** 

Lesson 1

• Mathematical Thinking & Reasoning MTR.1.1, MTR.3.1, MTR.4.1, MTR.5.1, MTR.6.1, MTR.7.1

- Underline the sentence that tells you what you are trying to find.
- Circle the numbers you need to use.

 $560 \times 1 = 560$   $560 \times 0.1 = 56.0$   $560 \times 0.01 = 5.60$  $560 \times 0.001 = 0.560$  **CONNECT** Dividing by 10 is the same as multiplying by 0.1 or finding  $\frac{1}{10}$  of a number.

