

**Using the Whiteboard**

- Pull out the Problem tab and read the problem to students.
- Read the introduction to students.
- Pull out the Remember tab and read the information.
- Tap the first **Action Arrow** and discuss potential answers with students.
- Invite volunteers to tap **Answer** to reveal the answers.
- Tap the second **Action Arrow** and discuss potential answers with students.
- Invite volunteers to tap **Answer** to reveal the answers.

Teaching the Math

Read and discuss the problem with students. Explain that when solving real-world problems, there are different ways to interpret a quotient and a remainder depending on what the problem asks.

Ask: What information do you know? *Magda has leftover wallpaper 73 inches long. She wants to cut it into 8 equal pieces.*

Ask: What do you need to find? *the length of each piece*

Work through the problem with the class.

Ask: Why do you divide the number of inches by 8? *Possible answer: I want to find the length in inches of each of 8 equal pieces.*

Ask: What does the 9 represent in the quotient? *9 inches*

Ask: If you divide 1 inch into 8 equal pieces, how long is each piece? *$\frac{1}{8}$ inch*

Ask: Do you need to include the remainder in the answer? Explain. *Yes; possible explanation: Magda wants to have exactly 8 pieces, so to cut it evenly without any left over, I need to include the remainder.*

Answer Key

The divisor is *8* pieces.

The *dividend* is 73 inches.

$$\frac{\text{remainder}}{\text{divisor}} = \frac{1}{8}$$

Write the quotient with the remainder written as a fraction. *$9\frac{1}{8}$*

So, each piece will be *$9\frac{1}{8}$* inches long.