## **Chapter 1 Ratios and Proportional Reasoning**

**Lesson 1-6 Solve Proportional Relationships** Page 59

**Solve the proportion.** 

$$\frac{1.5}{6} = \frac{10}{p}$$

$$1.5p = 10(6)$$
Find the cross products.
$$1.5p = 60$$
Multiply.
$$\frac{1.5p}{1.5} = \frac{60}{1.5}$$
Divide each side by 1.5.
$$p = 40$$
Simplify.

Mrs. Baker paid \$2.50 for 5 pounds of bananas. Write an equation relating the cost c to the number of pounds p of bananas. How much would Mrs. Baker pay for 8 pounds of bananas?

$$\frac{\$2.50}{5 \text{ lbs}} = \frac{\$0.50}{1 \text{ lb}}$$
 The unit cost of the bananas is \$0.50 per pound.

Write an equation to find the cost of any number of pounds of bananas.

$$c = 0.50p$$
 Let  $c$  represent the cost. Let  $p$  represent the pounds of bananas.  $c = 0.50(8)$  Replace  $p$  with  $8$ . Simplify.

It would cost \$4 to purchase 8 pounds of bananas.