Chapter 1 Ratios and Proportional Reasoning

1 **Solve the proportion.**

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

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

1 **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.
$c = \$4.00$	Simplify.

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