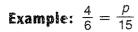
LESSON 3-3

Solving Proportions with Cross Products

Use cross multiplication to solve these proportions.



$$15*4 = \underline{} = 6*p$$

$$15 * 4 = 6 * p$$

$$60 = 6p$$

$$\frac{60}{6} = p$$

$$10 = p$$

$$\frac{3}{6} = \frac{y}{10}$$

$$\frac{7}{21} = \frac{3}{c}$$

3.
$$\frac{m}{20} = \frac{2}{8}$$

$$4 \cdot \frac{2}{10} = \frac{5}{z}$$

5.
$$\frac{9}{15} = \frac{12}{k}$$

6.
$$\frac{10}{12} = \frac{d}{9}$$

For each problem on the next page, set up a proportion and solve it using cross multiplication. Then write the answer.

Example: Jessie swam 6 lengths of the pool in 4 minutes. At this rate, how many lengths will she swim in 10 minutes?

Solution: $\frac{6}{4} = \frac{n}{10}$

$$10 * 6 = 4 * n$$

$$60 = 4n$$

$$\frac{60}{4} = n$$

$$15 = n$$

Answer: Jessie will swim _____ lengths in 10 minutes.

LESSON 8-3

Solving Proportions with Cross Products continued

7.	Belle bought 8 yards of ribbon for \$6. How many yards could she buy for \$9?	Solution:		el constante	114 115
	Answer: Belle could buy yards of ribbon for \$9.				
8.	Before going to France, Maurice exchanged \$25 for 20 euros. At that exchange rate, how many euros could he get for \$80?	Solution:			
			٠		
	Answer: Maurice could get euros for \$80.				
9.	One gloomy day, 4 inches of rain fell in 6 hours. At this rate, how many inches of rain had fallen after 4 hours?	Solution:			
	Answer: inches of rain had fallen in 4 hours.				
0.	Adelio's apartment building has 9 flights of stairs. To climb to the top floor, he must go up 144 steps. How many	Solution:			•
	steps must he climb to get to the fifth floor?				
				i	
	Answer: Adelio must climb steps.				
11.	At sea level, sound travels 0.62 mile in 3 seconds. What is the speed of sound in miles per hour?	Solution:			
	(Hint: First find the number of seconds in 1 hour.)		2		
e P					
	Answer: Sound travels at the rate of miles per hour.		ut :	• .	2 - 12