Name_____ Date _____

5.4 Practice A

Use multiplication to solve the proportion.

1. $\frac{7}{4} = \frac{y}{28}$ **2.** $\frac{d}{48} = \frac{3}{4}$ **3.** $\frac{j}{8} = \frac{35}{56}$

Use the Cross Products Property to solve the proportion.

4. $\frac{14}{21} = \frac{b}{9}$ **5.** $\frac{10}{p} = \frac{6}{9}$ **6.** $\frac{55}{4} = \frac{h}{6}$

7. Eighteen oranges are packaged in 3 containers. How many oranges are packaged in 7 containers?

8. It costs $270 for 3 people to go on a fishing trip. How much does it cost for 10 people to go on the fishing trip?

Solve the proportion.

9. $\frac{3x}{10} = \frac{9}{4}$ **10.** $\frac{5x}{3} = \frac{80}{12}$ **11.** $\frac{7}{2} = \frac{x+1}{6}$

12. Tell whether the statement is *true* or *false*. Explain.

$$\text{If } \frac{p}{q} = \frac{3}{5}, \text{ then } \frac{5}{p} = \frac{3}{q}.$$

13. The dimensions of a miniature model are proportional to the dimensions of the actual building.

a. A wall that is 12 feet high on the building is 36 centimeters high on the model. Find the height on the model of a door that is 9 feet high on the building.

b. Use a different method than the one you used in part (a) to find the number of centimeters on the model for a window that is 3 feet wide.

14. The ratio of men to women at a lecture is 2 to 5. A total of 63 people are at the lecture. How many are men? Explain how you found your answer.

15. The distance traveled (in feet) is proportional to the number of seconds. Find the values of x, y, and z.

Feet	3	x	15	z
Seconds	5	65	y	3.5

16. You train for a race by running at a speed of 6 miles per hour.

a. At this speed, how many *minutes* does it take you to run 3.2 miles?

b. On race day, you run 3.2 miles in 30 minutes. What is your speed in miles per hour?