Practice 5-4

Solving Proportions

Use mental math to solve for each value of n.

1.
$$\frac{n}{14} = \frac{20}{35}$$

3.
$$\frac{24}{n} = \frac{16}{10}$$

2.
$$\frac{9}{6} = \frac{21}{n}$$

4.
$$\frac{3}{4} = \frac{n}{10}$$

Solve each proportion using cross products.

5.
$$\frac{k}{8} = \frac{14}{4}$$

6.
$$\frac{u}{3} = \frac{10}{5}$$

7.
$$\frac{14}{6} = \frac{d}{15}$$
 8. $\frac{5}{1} = \frac{m}{4}$

8.
$$\frac{5}{1} = \frac{m}{4}$$

9.
$$\frac{36}{32} = \frac{n}{8}$$

10.
$$\frac{5}{30} = \frac{1}{3}$$

9.
$$\frac{36}{32} = \frac{n}{8}$$
 10. $\frac{5}{30} = \frac{1}{x}$ **11.** $\frac{t}{4} = \frac{5}{10}$ **12.** $\frac{9}{2} = \frac{v}{4}$

12.
$$\frac{9}{2} = \frac{v}{4}$$

Solve.

Practice

- **13.** A contractor estimates it will cost \$2,400 to build a deck to a customer's specifications. How much would it cost to build five similar decks?
- 14. A recipe requires 3 c of flour to make 27 dinner rolls. How much flour is needed to make 9 rolls?

Solve using a calculator, paper and pencil, or mental math.

- **15.** Mandy runs 4 km in 18 min. She plans to run in a 15 km race. How long will it take her to complete the race?
- **16.** Ken's new car can go 26 miles per gallon of gasoline. The car's gasoline tank holds 14 gal. How far will he be able to go on a full tank?
- 17. Eleanor can complete two skirts in 15 days. How long will it take her to complete eight skirts?
- **18.** Three eggs are required to make two dozen muffins. How many eggs are needed to make 12 dozen muffins?