

## Practice 4-4

## Solving Proportions

Use mental math to solve for each value of  $n$ .

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

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

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

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

$k =$  \_\_\_\_\_

$u =$  \_\_\_\_\_

$d =$  \_\_\_\_\_

$m =$  \_\_\_\_\_

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

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

11.  $\frac{t}{4} = \frac{5}{10}$

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

$n =$  \_\_\_\_\_

$x =$  \_\_\_\_\_

$t =$  \_\_\_\_\_

$v =$  \_\_\_\_\_

Solve.

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?

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14. A recipe requires 3 c of flour to make 27 dinner rolls. How much flour is needed to make 9 rolls?

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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?

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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?

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17. Eleanor can complete two skirts in 15 days. How long will it take her to complete eight skirts?

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18. Three eggs are required to make two dozen muffins. How many eggs are needed to make 12 dozen muffins?

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