

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

$k =$ _____

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

$u =$ _____

7. $\frac{14}{6} = \frac{d}{15}$

$d =$ _____

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

$m =$ _____

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

$n =$ _____

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

$x =$ _____

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

$t =$ _____

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

$v =$ _____

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?

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?
