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## Lesson 5-3

## Do the ratios in each pair form a proportion?

1. $\frac{8}{9}, \frac{4}{3}$
2. $\frac{20}{16}, \frac{18}{15}$
3. $\frac{18}{12}, \frac{21}{14}$
4. $\frac{21}{27}, \frac{35}{45}$
5. $\frac{18}{22}, \frac{45}{55}$
6. $\frac{38}{52}, \frac{57}{80}$
7. $\frac{10}{65}, \frac{18}{87}$
8. $\frac{51}{48}, \frac{68}{64}$

Find the value that completes each proportion.

## 9. $\frac{4}{5}=\frac{?}{15}$ <br> $\qquad$

11. $\frac{3}{2}=\frac{21}{?}$
$\qquad$
12. $\frac{7}{8}=\frac{?}{32}$
$\qquad$
13. 8 to $12=$ ? to 6
$\qquad$
14. $\frac{?}{5}=\frac{32}{20}$
15. $\frac{5}{4}=\frac{15}{?}$
16. $\frac{8}{?}=\frac{4}{15}$
$\qquad$
$\qquad$
$\qquad$
17. $9: 12=3: ?$
18. In 1910 , there were about 220 families for every 1,000 people in the United States. If a certain town had a population of 56,000 , about how many families would you expect to find in the town?
19. For every 100 families with TV sets, about 12 families like watching sports. In a town of 23,400 families who all have TV sets, how many families would you expect to like watching sports?
20. In 1800 , there were only about 6 people per square mile of land in the U.S. What was the approximate population in 1800 if there were about 364,700 square miles in the U.S.?
