

Lesson 6 ~ Write and Solve Proportions

Name _____

Period _____

Date _____

Solve each proportion.

1. $\frac{3}{4} = \frac{x}{20}$

2. $\frac{5}{7} = \frac{25}{y}$

3. $\frac{8}{28} = \frac{a}{7}$

4. $\frac{x}{32} = \frac{3}{16}$

5. $\frac{6}{12} = \frac{y}{48}$

6. $\frac{3}{15} = \frac{5}{b}$

7. $\frac{11}{14} = \frac{x}{28}$

8. $\frac{26}{30} = \frac{x}{15}$

9. $\frac{5}{20} = \frac{4}{y}$

Determine whether each pair of ratios forms a proportion.

10. $\frac{5}{9}$ and $\frac{40}{44}$

11. $\frac{18}{21}$ and $\frac{12}{14}$

12. $\frac{7}{12}$ and $\frac{35}{60}$

Write a proportion for each phrase and solve it.

13. 3 feet in 1 second; 21 feet in x seconds

14. 7 pounds for \$10.43; 10 pounds for a dollars

15. 25 miles in 30 minutes; y miles in 48 minutes