

Lesson 6C ~ Write and Solve Proportions

Name _____ Period _____ Date _____

Solve each proportion.

1. $\frac{2}{5} = \frac{x}{20}$

2. $\frac{4}{7} = \frac{28}{y}$

3. $\frac{6}{42} = \frac{2a}{7}$

4. $\frac{3x}{18} = \frac{8}{24}$

5. $\frac{33}{75} = \frac{2y}{50}$

6. $\frac{2}{9} = \frac{5}{b}$

7. $\frac{1}{24} = \frac{x}{36}$

8. $\frac{15}{30} = \frac{5x}{12}$

9. $\frac{5}{20} = \frac{4}{y+2}$

10. Bob walked 20 miles in 4 hours. Kelly walked 14 miles in 3 hours. Are these rates proportional? Explain why or why not.
11. Tami typed 120 words in 2 minutes. Carl typed 30 words in 30 seconds. Are these rates proportional? Explain why or why not.
12. Sherlock put two tomato plants in his garden. The first tomato plant produced 20 tomatoes in a 2-day period. The second tomato plant produced 35 tomatoes in a 3.5-day period. Are these rates proportional? Explain why or why not.
13. Write a proportion for the phrase and solve it:
9 pounds for \$5.85; 20 pounds for d dollars
14. Write a proportion using the variable x . The solution to the proportion should be $x = 5$.