

DATE \_\_\_\_\_

Name \_\_\_\_\_

Setting Up Proportions

Solve each proportion.

1.  $\frac{7}{16} = \frac{x}{32}$

2.  $\frac{7}{4} = \frac{21}{b}$

3.  $\frac{y}{9} = \frac{4}{12}$

4.  $\frac{5}{a} = \frac{9}{27}$

5.  $\frac{18}{24} = \frac{6}{d}$

6.  $\frac{15}{6} = \frac{m}{2}$

7.  $\frac{r}{10} = \frac{21}{7}$

8.  $\frac{4}{m} = \frac{8}{11}$

9.  $\frac{17}{30} = \frac{x}{25}$

Write a proportion that could be used to solve each variable. After you have written all the proportions, go back and solve them if you have time.

10. 1 subscription for \$21  
28 subscriptions for  $x$  dollars

11. 20 boxes at \$7  
17 boxes at  $x$  dollars

12. 1 gallon of water weighs  $8\frac{1}{2}$  pounds  
20 gallons of water weighs  $x$  pounds

13. 1 cm represents 2.5 km  
2.4 cm represents  $x$  km

14. 5 items at \$12.75  
 $x$  items at \$22.50

15. 2 packages of cheese for \$7.50  
6 packages of cheese for  $x$  dollars