

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