

# Practice 2-6

## Solving Equations by Multiplying or Dividing

Solve each equation.

1.  $\frac{k}{-5} = -5$  \_\_\_\_\_

2.  $-3 = \frac{n}{7}$  \_\_\_\_\_

3.  $\frac{x}{12} = 0$  \_\_\_\_\_

4.  $-6 = \frac{m}{-2}$  \_\_\_\_\_

5.  $\frac{y}{-4} = -12$  \_\_\_\_\_

6.  $\frac{s}{30} = 6$  \_\_\_\_\_

7.  $\frac{1}{9}z = 0$  \_\_\_\_\_

8.  $-\frac{m}{55} = 1$  \_\_\_\_\_

9.  $-3x = 18$  \_\_\_\_\_

10.  $-56 = 8y$  \_\_\_\_\_

11.  $8p = -8$  \_\_\_\_\_

12.  $-4s = -32$  \_\_\_\_\_

13.  $14h = 42$  \_\_\_\_\_

14.  $-175 = 25g$  \_\_\_\_\_

15.  $-42 = 6m$  \_\_\_\_\_

16.  $-2x = 34$  \_\_\_\_\_

17.  $\frac{x}{-9} = -11$  \_\_\_\_\_

18.  $216 = 9w$  \_\_\_\_\_

19.  $-17v = -17$  \_\_\_\_\_

20.  $-161 = 23t$  \_\_\_\_\_

21.  $56h = 3,136$  \_\_\_\_\_

22.  $20 = \frac{e}{-25}$  \_\_\_\_\_

23.  $4,200 = 30x$  \_\_\_\_\_

24.  $\frac{y}{-21} = -21$  \_\_\_\_\_

25.  $\frac{m}{3} = 21$  \_\_\_\_\_

26.  $4,000 = \frac{x}{-40}$  \_\_\_\_\_

Write an equation for each sentence. Solve the equation.

27. A bamboo tree grew 3 in. per day. Write and solve an equation to find how many days  $d$  it took the tree to grow 144 in.

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

28. Carl drove 561 miles. His car averages 33 miles per gallon of gas. Write and solve an equation to find how much gas Carl's car used. Let  $g$  represent the amount of gas Carl's car used.

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_

For what values of  $y$  is each equation true?

29.  $-5|y| = -25$

30.  $\frac{|y|}{2} = 28$

31.  $9|y| = 27$

\_\_\_\_\_

© Pearson Education, Inc., publishing as Pearson Prentice Hall. All rights reserved.