

## 3-3

**Skills Practice*****Solving Equations by Using Multiplication and Division***

Solve each equation. Then check your solution.

1.  $12z = 108$

2.  $-7t = 49$

3.  $18e = -216$

4.  $-22 = 11v$

5.  $-6d = -42$

6.  $96 = -24a$

7.  $\frac{c}{4} = 16$

8.  $\frac{a}{16} = 9$

9.  $-84 = \frac{d}{3}$

10.  $-\frac{d}{7} = -13$

11.  $\frac{t}{4} = -13$

12.  $31 = -\frac{1}{6}n$

13.  $-6 = \frac{2}{3}z$

14.  $\frac{2}{7}q = -4$

15.  $\frac{5}{9}p = -10$

16.  $\frac{a}{10} = \frac{2}{5}$

17.  $-0.4b = 5.2$

18.  $1.6m = -4$

Write an equation for each problem. Then solve the equation.

19. The opposite of a number is  $-9$ . What is the number?

20. Fourteen times a number is  $-42$ . Find the number.

21. Eight times a number equals  $128$ . What is the number?

22. Negative twelve times a number equals  $-132$ . Find the number.

23. Negative eighteen times a number is  $-54$ . What is the number?

24. One sixth of a number is  $-17$ . Find the number.

25. Negative three fifths of a number is  $-15$ . What is the number?