



## 1-2 Solving Linear Equations

Solve each equation.

1.  $2m - 7 = 11$

2.  $-3d + 13 = 43$

3.  $\frac{p}{4} + 1 = 8$

4.  $-3 = -3(2t - 4)$

5.  $\frac{2(r-6)}{4} - 8 = 2$

6.  $8(n + 7) = 24$

7.  $x - 2(x + 10) = 14$

8.  $-25 = 5(3q - 10) - 5q$

**For Items 9–11, write and solve a linear equation to match each situation.**

9. The sum of three consecutive integers is 60. What are the three integers?
10. Olivia ate at the same restaurant four times. Each visit she ordered a salad and left a \$2.50 tip. She spent a total of \$64. Find the cost  $c$  of each salad.
11. A student needs 30 liters of a solution that is 12% acid for a lab, but he only has a solution that is 10% and a solution that is 15%. How many liters of the 10% solution and the 15% solutions should he mix to get what he needs?