Practice 1-4 Solving Equations

Solve each equation.

2. 8.5 = 5p

3. $\frac{d}{4} = -31$

Solve each equation. Check your answer.

7. 5w + 8 - 12w = 16 - 15w

8. 3(x + 1) = 2(x + 11)

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Write an equation to solve each problem.

- 9. Two brothers are saving money to buy tickets to a concert. Their combined savings is \$55. One brother has \$15 more than the other. How much has each saved?
- **10. Geometry** The sides of a triangle are in the ratio 5 : 12 : 13. What is the length of each side of the triangle if the perimeter of the triangle is 15 inches?
- **11.** What three consecutive numbers have a sum of 126?

Determine whether the equation is *always*, *sometimes*, or *never* true.

12.
$$6(x + 1) = 2(5 + 3x)$$

Solve each formula for the indicated variable.

14.
$$S = L(1 - r)$$
, for r **15.** $A = lw + wh + lh$, for w

Solve each equation for y.

16.
$$\frac{4}{9}(y+3) = g$$

17. a(y + c) = b(y - c)

18. $\frac{y+3}{t} = t^2$

15.
$$A = lw + wh + lh$$
, for w

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Form G



Solve each equation.

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21. 1.2(x + 5) = 1.6(2x + 5)

23. $\frac{u}{5} + \frac{u}{10} - \frac{u}{6} = 1$

Solve each formula for the indicated variable.

24.
$$V = \frac{\pi}{3}r^2h$$
, for *h*

Write an equation to solve each problem.

27. Geometry The sides of one cube are twice as long as the sides of a second cube. What is the side length of each cube if the total volume of the cubes is 72 cm³?

m - m + M

28. Error Analysis Brenna solved an equation for *m*. Do you agree with her? Explain your answer.

Solve each problem.

31. What four consecutive odd integers have a sum of 336?