

**Practice A**

For use with pages 100–107

Decide whether the statement is *true* or *false*. If false, rewrite the right-hand side of the equation so the statement is true.

1.  $4(2 + 7) \stackrel{?}{=} 4(2) + 7$

2.  $(5 + 3)8 \stackrel{?}{=} 5(3) + 5(8)$

3.  $12(9 - 5) \stackrel{?}{=} 12(9) - 12(5)$

4.  $(16 - 8)(4) \stackrel{?}{=} 16 - 8(4)$

5.  $16(x + 10) \stackrel{?}{=} 16x + 10$

6.  $-4(t - 12) \stackrel{?}{=} -4t - (-4)(12)$

Use the distributive property to rewrite the expression without parentheses.

7.  $8(x + 5)$

8.  $4(y - 7)$

9.  $(t - 4)(2)$

10.  $-6(r - 1)$

11.  $(m - 7)(-3)$

12.  $-12(3 + n)$

13.  $(x)(x + 3)$

14.  $(-a)(a + 3)$

15.  $(2x + 1)(5x)$

16.  $(6b - 2)(3b)$

17.  $(-3x)(-x - 2)$

18.  $(2 - 3y)(y^2)$

Circle the like terms in each list.

19.  $4x, (-2x), 8, x, 4x^2$

20.  $a, 6 - a, 6a, 6a^2, 6$

21.  $22b, -5b, 5, b + 5, 8b$

22.  $x, 3x, 3x^2, x + 3, -3x$

23.  $17a^2, -2a^2, 2 - a, 3a, 6a^2$

24.  $8, 3m, -4, 3n, 7.5$

Simplify the expression by combining like terms.

25.  $5x + 2x$

26.  $16m + (-4m)$

27.  $-4x - 8x$

28.  $6 - x + 2$

29.  $-2 + t + 8$

30.  $4 + m + m$

31.  $9.2x + 7.1x$

32.  $\frac{7}{8}x + (-\frac{3}{8}x)$

33.  $63n + 87n$

Apply the distributive property. Then simplify by combining like terms.

34.  $2(x + 1) + x$

35.  $2(3a - 5) + 2a$

36.  $(-4)(5m + 2) + 3m$

37.  $2t + (3 + 5t)(4)$

38.  $2x(x + 4) + 5x^2$

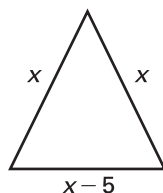
39.  $-2t(t - 5) + (-5t^2)$

40.  $5 + 2(a + 8)$

41.  $4 - 3(y + 8)$

42.  $5x - 2x(x + 3)$

43. **Geometry** Write an expression for the perimeter of the triangle shown below.



44. **Geometry** Write an expression for the perimeter of the trapezoid shown below.

