

**Using the Distributive Property**

Solve each of the following equations for the unknown variable. **Distribute, combine like terms and solve.**

1.  $3(x-2) = 6$

6.  $-5(3-4x) = -6 + 20x - 9$

2.  $-3(2x-8) = -12$

7.  $4(x-3) - (x-5) = 0$

3.  $2(x+4) = -3(x+5)$

8.  $-2(4-x) = 6(x+2) + 3x$

4.  $4(2x-3) + 4 = 8x - 8$

9.  $5(x-3) = 45$

5.  $2(x+7) = 6x + 9 - 4x$

10.  $-3(x+7) = 9$

$$11. 8 = 2(x - 5) + 6x$$

$$16. 2(x + 7) + x = 20$$

$$12. 4(n + 2) - 2n = 0$$

$$17. 4 = -2(x + 3)$$

$$13. 2(3x - 1) + 2(4x + 5) = 8$$

$$18. 2 = 7(x + 4) + 9x$$

$$14. 4(6 + 2x) = 0$$

$$19. \frac{1}{2}(4x - 2) = 9$$

$$15. 1 = 3(x - 2) + 3 - 2x$$

$$20. 6 + 3x = 5(x - 1) - 3(x - 2)$$