Lesson 2-3: Solve Multi-Step Equations

1. Sample answer: I can use the Distributive Property to simplify an expression and combine like terms.

2. Sample answer: Combine the like terms 3x and -5x or use the Distributive Property on the left side of the equation.

3. Sample answer: The order of operations says to multiply before subtracting. You have to multiply by 7 before you can subtract the x from 7x.

4. x = -3

5. x = 6

6. x = 21

7. x = 120

8. x
   12
   9
   18
   $18

9. 3; 4; 12
   3; 3; 12
   6; 12
   -6; -12
   2

10. 3; 18; 6
    3; 12; 6
    -2; 12; -6
    -2; 6
    -3

11. x = 1.6

12. x = 4

13. $x = \frac{-23}{2}$ or $-11\frac{1}{2}$

14. x = -0.9

15. x = 7

16. m = 9; Sample answer: You have to multiply each term inside the parentheses by 2.

17. 30

18. x = 15

19. None

20. x = 6