Chapter 8 Extra Practice

Lesson 8.1

Determine whether the given value of the variable is a solution of the equation.

1. \(5 - a = 5; a = 0\)  
   solution

2. \(\frac{3}{4}d = 6; d = 8\)  
   solution

3. \(0.8 + k = 10; k = 0.2\)  
   not a solution

Lesson 8.2

Write an equation for the word sentence.

4. 7 less than the number of pencils is 15.  
   \(p - 7 = 15\)

5. 12 times the number of tennis balls is 48.  
   \(12t = 48\)

Lesson 8.3 - 8.6

Model and solve the equation by using algebra tiles.

6. \(8 = 8x\)  
   \(x = 1\)

7. \(x + 5 = 9\)  
   \(x = 4\)

8. \(8 = 1 + x\)  
   \(x = 7\)

Solve the equation, and check the solution.

9. \(c + 14 = 35\)  
   \(c = 21\)

10. \(n - 5.1 = 8.8\)  
    \(n = 13.9\)

11. \(1\frac{1}{2} = v + \frac{3}{4}\)  
    \(v = \frac{3}{4}\)

12. \(16 = m - 7\)  
    \(m = 23\)

13. \(12x = 72\)  
    \(x = 6\)

14. \(\frac{b}{3} = 18\)  
    \(b = 54\)

15. \(13 = 5.2y\)  
    \(y = 2.5\)

16. \(\frac{1}{4} = \frac{2}{3}s\)  
    \(s = \frac{3}{8}\)