

## Extra Practice

### Lesson 1-3

(pages 16–20)

Find the solution of each equation if the replacement sets are  $x = \{0, 2, 4, 6, 8\}$  and  $y = \{1, 3, 5, 7, 9\}$ .

1.  $x - 4 = 4$  **8**

2.  $25 - y = 18$  **7**

3.  $3x + 1 = 25$  **8**

4.  $5y - 4 = 11$  **3**

5.  $14 = \frac{96}{x} + 2$  **8**

6.  $0 = \frac{y}{3} - 3$  **9**

Solve each equation.

7.  $x = \frac{27 + 9}{2}$  **18**

8.  $\frac{18 - 7}{13 - 2} = y$  **1**

9.  $n = \frac{6(5) + 3}{2(4) + 3}$  **3**

10.  $\frac{5(4) - 6}{2^2 + 3} = z$  **2**

11.  $\frac{7^2 + 9(2 + 1)}{2(10) - 1} = t$  **4**

12.  $a = \frac{3^3 + 5^2}{2(3 - 1)}$  **13**

Find the solution set for each inequality if the replacement sets are  $x = \{4, 5, 6, 7, 8\}$  and  $y = \{10, 12, 14, 16\}$ .

13.  $x + 2 > 7$  **{6, 7, 8}**

14.  $x - 1 < 8$  **{4, 5, 6, 7, 8}**

15.  $2x \leq 15$  **{4, 5, 6, 7}**

16.  $3y \geq 36$  **{12, 14, 16}**

17.  $\frac{x}{3} < 2$  **{4, 5}**

18.  $\frac{5y}{4} \geq 20$  **{16}**