2.3 Translating

1.
$$x = .05(8) = .4$$

2.
$$5x - 4 = 16$$
; $x = 4$

3.
$$.065x = 12.44$$
; $x = 191.38$

4.
$$3x + 7 = 22; x = 5$$

5.
$$7 + 2x = 11; x = 2$$

6.
$$\frac{2}{3}x = 20$$
; x = 30

7.
$$13x = 221$$
; $x = 17$

8.
$$17x = 403$$
; $x = \frac{403}{17}$

9.
$$3.7x = 8.51$$
; $x = 2.3$

10. a. Let
$$x = price per acre$$
.

b.
$$43x = 36,550$$

c.
$$x = 850$$

11. a. Let
$$x = amount$$
 of each student contribution.

b.
$$18x = 59.40$$

c.
$$x = 3.3$$

12. a. Let
$$x = mph$$
.

b.
$$7x = 126$$

c.
$$x = 18$$

13. a. Let
$$x = ave$$
. train mph.

b.
$$24x = 1052.4$$

$$c. x = 43.85$$

14. b.
$$\frac{3}{10}x = 2100$$

c. $x = 7000$

$$c = v^{10} = 7000$$

15. b.
$$\frac{5}{8}x = 343$$

c.
$$x = 548.8$$

$$d.$$
 The number is 548.8 .

16. a. Let
$$x = \text{area of Lake Michigan}$$
.

b.
$$\frac{2}{5}x = 9200$$

c.
$$x = 23,000$$

17. a. Let
$$x = \cos t$$
 of Suez Canal b. $\frac{3}{8}x = 37,500,00$

b.
$$\frac{3}{5}x = 37,500,00$$

c.
$$x = 100,000,000$$