Practice 2-2

Solve each equation. Check your answer.

1.
$$5a + 2 = 7$$

2.
$$2x + 3 = 7$$

3.
$$3b + 6 = 12$$

4.
$$9 = 5 + 4t$$

5.
$$4a + 1 = 13$$

6.
$$-t + 2 = 12$$

Write an equation to model each situation. Then solve.

- 7. You want to buy a bouquet of yellow roses and baby's breath for \$16. The baby's breath costs \$3.50 per bunch, and the roses cost \$2.50 each. You want one bunch of baby's breath and some roses for your bouquet. How many roses can you buy?
- 8. Suppose you walk at the rate of 210 ft/min. You need to walk 10,000 ft. How many more minutes will it take you to finish if you have already walked 550 ft?
- 9. Suppose you have shelled 6.5 lb of pecans, and you can shell pecans at a rate of 1.5 lb per hour. How many more hours will it take you to shell a total of 11 lb of pecans?
- 10. To mail a first class letter, the U.S. Postal Service charges \$.34 for the first ounce and \$.21 for each additional ounce. It costs \$1.18 to mail your letter. How many ounces does your letter weigh?
- 11. Suppose you want to buy one pair of pants and several pairs of socks. The pants cost \$24.95, and the socks are \$5.95 per pair. How many pairs of socks can you buy if you have \$50.00 to spend?

Solve each equation. Check your answer.

12.
$$5.8n + 3.7 = 29.8$$

13.
$$67 = -3y + 16$$

14.
$$-d + 7 = 3$$

15.
$$\frac{m}{9} + 7 = 3$$

16.
$$6.78 + 5.2x = -36.9$$

17.
$$5z + 9 = -21$$

18.
$$3x - 7 = 35$$

19.
$$36.9 = 3.7b - 14.9$$

22. $11.6 + 3a = -16.9$

20.
$$4s - 13 = 51$$

26. 22 = 7 - 3a

21.
$$9f + 16 = 70$$

24. $-c + 2 = 5$

25.
$$-67 = -8n + 5$$

23.
$$-9 = -\frac{h}{12} + 5$$

27.
$$\frac{k}{3} - 19 = -26$$

28.
$$-21 = \frac{n}{3} + 2$$

29.
$$3x + 5.7 = 15$$

30.
$$\frac{a}{5} - 2 = -13$$

31.
$$2x + 23 = 49$$

32.
$$\frac{x}{2} + 8 = -3$$

$$24-x=-16$$

$$\frac{x}{7}+4=15$$

35.
$$-8 = 2x - 5$$

a.
$$24 - x - 24 = -16 - 24$$
 a. $\frac{x}{7} + 4 - 4 = 15 - 4$

a.
$$\frac{x}{7} + 4 - 4 = 15 - 4$$

a.
$$-8 + 5 = 2x - 5 + 5$$

b.
$$-x = -40$$

b.
$$\frac{x}{7} = 11$$

b.
$$-3 = 2x$$

c.
$$-1(-x) = -1(-40)$$

c.
$$7(\frac{x}{7}) = 7(11)$$

c.
$$-\frac{3}{2} = \frac{2x}{2}$$

$$x = 40$$

$$x = 77$$

d.
$$-\frac{3}{2} =$$