Name_____ Period_____ Date_____

Practice 3-1

Solving Two-Step Equations

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. $-t + 2 = 12$

Define a variable and 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. 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?

10. 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 solution.

11. $5.8n + 3.7 = 29.8$

12. $67 = -3y + 16$

13. $-d + 7 = 3$

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

15. $6.78 + 5.2x = -36.9$

16. $5z + 9 = -21$

17. $3x - 7 = 35$

18. $36.9 = 3.7b - 14.9$

19. $4s - 13 = 51$

20. $9f + 16 = 70$

21. $11.6 + 3a = -16.9$

22. $-9 = -\frac{h}{12} + 5$

23. $-c + 2 = 5$

24. $-67 = -8n + 5$

25. $22 = 7 - 3a$

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

27. $-21 = \frac{n}{3} + 2$

28. $3x + 5.7 = 15$

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

30. $2x + 23 = 49$

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