LESSON 7.5

Name _____ Date _____

Practice B

For use with pages 361–365

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

1. $6x - 5 = 13;\ x = 3$ **2.** $8m + 7 = -17;\ m = 3$ **3.** $3c - 1 = -4;\ c = -1$

Match the equation with its solution.

4. $4y - 3 = -1$ **A.** $y = -1$

5. $-3y + 4 = -1$ **B.** $y = \frac{1}{2}$

6. $-4y - 3 = 1$ **C.** $y = 1$

7. $3y - 4 = -1$ **D.** $y = 1\frac{2}{3}$

8. Put the steps for solving the equation $9x - 8 = -5$ in order.

A. Divide each side by 9. **B.** Write original equation.

C. Check your answer. **D.** Add 8 to each side.

Solve the equation. Check your solution.

9. $7a + 4 = -17$ **10.** $-5s - 13 = -68$ **11.** $12 - x = 19$

12. $\frac{n}{6} - 4 = 4$ **13.** $\frac{d}{3.2} + 6 = 21$ **14.** $\frac{1}{2}p - 7 = -27$

15. $0 = 14t + 26$ **16.** $\frac{3}{4}m - 5 = 16$ **17.** $3.4c - 1.7 = 6.8$

Write the verbal sentence as an equation. Then solve the equation.

18. Twice the number r increased by 15 equals -17.

19. 8 subtracted from 3 times a number c is 31.

20. A mail-order CD company is advertising a sale. During the sale, CDs are \$6.95 each and the shipping and handling charge is only \$5.25. How many CDs can you buy for \$40?

21. A window is 21 inches wide, and its perimeter is 112 inches. What is the length of the window?

22. Kathy earns \$445 a week for 40 hours of work and \$25 an hour for each hour over 40. How many hours did Kathy work if she earned \$570 in one week?