

# Chapter 2 Mid-Chapter Test

(Lessons 2-1 through 2-5)

SCORE \_\_\_\_\_

**Part I** Write the letter for the correct answer in the blank at the right of each question.

1. Translate the following sentence into an equation. *The product of five and the sum of a number  $x$  and three is twelve.*

- A  $5 + 3x = 12$                       C  $5x + 3 = 12$   
 B  $5(x + 3) = 12$                     D  $5x + 3 = x$

1.           **B**          

2. Solve  $y + (-16) = -12$ .

- F 192                      G -28                    H  $\frac{3}{4}$                     J 4

2.           **J**          

3. Solve  $-\frac{a}{6} + 5 = 2$ .

- A 18                      B -6                    C  $\frac{1}{2}$                     D -9

3.           **A**          

4. Solve  $\frac{3}{5}y = -9$ .

- F  $-5\frac{2}{5}$                     G -5                    H -15                    J  $-\frac{5}{9}$

4.           **H**          

5. Solve  $-6d = -42$ .

- A -48                    B 7                    C -36                    D 252

5.           **B**          

6. Evaluate  $15 - |2 - 3k|$  if  $k = 2$ .

- F 7                      G 11                    H 14                    J 19

6.           **G**          

**Part II**

7. Translate  $4n = x(5 - n)$  into a sentence.

Four times  $n$  equals  $x$  times the difference of five and  $n$ .

7.           \_\_\_\_\_          

**For Questions 8-10, solve each equation.**

8.  $5(12 - 3p) = 15p + 60$

8.           **0**          

9.  $3(y - 2) = 6(y - 1) - 3y$

9.           **all numbers**          

10.  $3a + 21 = 7 - 4a$

10.           **-2**          

11. Liza earned some money delivering newspapers. She bought a battery for \$1.95, and gave her mother \$30. She bought a ring for \$7.20, and then spent half of the remaining money on a radio. If Liza has \$38.50 left, how much money did she earn delivering newspapers?

11.           **\$116.15**          

12. Solve  $|2x - 3| = 7$ . Then graph the solution set.

12.           **{-2, 5}**          

