

**2****Chapter 2 Mid-Chapter Test**

SCORE \_\_\_\_\_

*(Lessons 2-1 through 2-5)***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. \_\_\_\_\_

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

**F** 192

**G** -28

**H**  $\frac{3}{4}$

**J** 4

2. \_\_\_\_\_

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

**A** 18

**B** -6

**C**  $\frac{1}{2}$

**D** -9

3. \_\_\_\_\_

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

**F**  $-5\frac{2}{5}$

**G** -5

**H** -15

**J**  $-\frac{5}{9}$

4. \_\_\_\_\_

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

**A** -48

**B** 7

**C** -36

**D** 252

5. \_\_\_\_\_

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

**F** 7

**G** 11

**H** 14

**J** 19

6. \_\_\_\_\_

**Part II**

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

7. \_\_\_\_\_

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

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

8. \_\_\_\_\_

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

9. \_\_\_\_\_

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

10. \_\_\_\_\_

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. \_\_\_\_\_

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

12. \_\_\_\_\_

