

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. _____

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. _____

