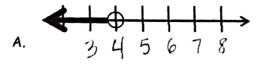
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Study Guide - Unit 2 Post Test Expressions and Equations

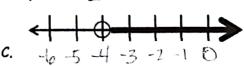
- 1. What phrase represents the expression: 5y + 10?
- 2. What expression is equal to: 4a + 9b + 2a 10b?
- 3. What is the value of x: 3(x + 3) = 33?
- 4. What is the solution to the inequality: -4x > 36?
- 5. What is the solution to the inequality: $2x + 14 \ge 30$?
- 6. What is the value of y in the following equation? 3 + 9y = 48
- 7. Simplify: 5 + 2(3x + 4) 3x

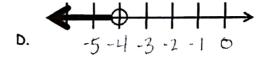
- 8. What is the solution to the inequality: a 9 > -22?
- 9. What is the solution for the equation: 8x 2 = 62?
- 10. To ride the Dragon roller coaster at Adventure Park, one must be taller than 48 inches. Write an inequality to represent h, the required height to ride the roller coaster.
- 11. Translate the following statement into an algebraic equation and solve.

 Three more than four times a number is fifteen. What is the number?
- 12. Translate the following statement into an algebraic equation: The quotient of nine and x is equal to eighteen.
- 13. Jacob spent \$18.50 of his \$40 game store gift card last week. This week he wants to use the rest of the balance to buy more games. If the games cost \$4.25 each, how many more games can he buy?
- 14. Which of the following shows the solution to: $-4 \times t = 3 \le -13$?









15. Solve: 7.5x - 3 = 22.5

- 16. Charlie paid a mechanic y dollars per hour for a 6 hour job plus \$177.00 for parts for his car. The total charge was \$885. Write the equation that can be used to determine how much the mechanic charged per hour to fix the car.
- 17. Which expression is NOT equivalent to the other three?

b.
$$-4x - 18 - 2x$$

$$c. -6(x + 3)$$

- 18. Solve for b: 10 = b/8 + 5
- 19. Write a simplified expression that represents the PERIMETER of the figure.
- 2° . Write a simplified expression that represents the AREA of the above figure.

