

Name___

Period_____ Date____

Vocabulary: Define each word and give an example.

- 1. Variable Expression
- 2. Like Terms
- 3. Absolute Value
- 4. Constant Term

Short Answer:

- 5. Write the order of operations.
- 6. Write the associative property of addition and illustrate with a real number example.
- 7. Describe how to use the distributive property to find the product of 8 and 53.

Review:

8. List the following real numbers in order and graph on the number line provided.

A.
$$\frac{5}{3}$$
, B. -2.3,
C. $\sqrt{25}$, D. $-\sqrt{17}$, π

Problems:

Be sure to show all work used to obtain your answer. Circle or box in the final answer.

9. Evaluate the expression.
$$\frac{6-2^2}{17-6\cdot 2}$$

10. Simplify the expression.
$$2 \cdot 3^2 - \left[64 \div (4 - 12) \cdot 2 \right]$$

Algebra 1 Expressions Quiz

Expressions

11. Simplify the expression. $-6 + 7 - 2|4 - 6| - 3^2$

12. Translate the verbal phrase into an algebraic expression: 9 less than the quotient of a number and 5

- 13. Write the algebraic expression as a verbal phrase: $\frac{1-x}{8}$
- 14. What is the value of $[(5 \cdot 9) \div x] + 6$ when x = 3?
- 15. Evaluate the expression $-4 + (-2)^2 \left[v \div 5(v-1) \right]$ when v = -10.
- 16. Evaluate the expression $-2x^2 + xy y + 1$ when $x = \frac{1}{2}$ and y = 6.
- 17. The temperature of a substance is 50° F. What is the temperature in degrees Celsius? Use the formula $C = \frac{5}{9} (F 32).$
- 18. Simplify the algebraic expressions.
 - a. $14x^2 x + 10 + 3x 20x^2 9$
 - b. 4d 3(1 2d) 10d + 8





19. Write a simplified expression for the perimeter of a rectangle if the sides are 3x and (5+4x).

Multiple Choice Questions: Circle the best answer.

- 20. In Algebra class, we follow the order of operations in evaluating expressions. Which operation should a student perform first to evaluate the expression $15 + 6 \div 3 \cdot 4 - 3$?
 - A. Addition
 - B. Division
 - C. Subtraction
 - D. Multiplication

21. Evaluate the expression 3x - 5y + 7 when $x = \frac{4}{3}$ and y = 2.

- А. –13
- В. —5
- C. 1 D. 9
- 22. Simplify the expression 8 + 5(x+3) 2x.
 - A. 3x + 11
 - B. 7x + 11
 - C. 3x + 23
 - D. -7x + 23