MPM 1D9 Grade 9 Pre-AP Math
Unit 1 - Quiz 1: Vocabulary of Algebra
Victim: Mr. Solutions Masterful work Mr. S. !! KW COM 15/15 12/12
Terminology (12 COM)
1. Match each term in the left column with the <i>best</i> definition or description in the right column.
1. Match each term in the left column with the best definition of description in the light column. Legree 3 Expression B. 125 ³ D. Expression B. 125 ³ D. Expression
Simplify
Like Terms N. Any mathematical calculation combining constants and/or variables using any valid mathematical operations.
Degree-3 Term K. Perform calculations with the goal of obtaining a final numeric answer.
Variable Var
Polynomial
Trinomial W. The constant part of a term.
B Degree-0 Term X. A polynomial with exactly three terms.
Equation Write a mathematical expression in a simpler form.
Evaluate K. Terms that contain exactly the same variable part.
Equivalent L. A mathematical statement asserting that two expressions are equal.
Modified True/False (5 KU)
State whether each statement is true or false. If false, change the <u>underlined part</u> to make the statement true.
2. T/F $= \frac{1}{2} \sum_{y=1}^{\infty} \frac{1}{2} \sum_{y=1}$
$\frac{xy = yx}{x = \frac{1}{2} \text{ mark}}$
3. T/F 2a+5b is equivalent to 7ab. Change:
4. T/F $\frac{1}{16-2n}$ means "six subtracted from double a number." Change: $\frac{2n-6}{16}$
5. T/F $\frac{1}{a^2(a^5)}$ can be <i>interpreted</i> as "two apples plus five apples." Change: $\frac{2a+5a}{a^2}$
This is a constant term. The degree of $2xyz + 3x^2 - 100^4$ is four. This is a constant term. Hence, its degree is zero. Change:
legree 3 2 0 KU APP TIPS COM -0 -0 -0 -0

Multiple Choice (5 KU)

Identify the choice that best completes the statement or answers the question. Use the provided blank space to ice. because there is only one write the letter corresponding to your choice.

Which of the following terms are unlike -8wz³?

- (a) $-4wz^3$
- **(b)** $-z^3 w$
- (c) $-8wz^3$
- (d) $8w^3z$

- Which expression is *equivalent* to 10p?
 - (a) 5p + 5p
- **(b)** p+p+p+7p **(c)** 12p-2p
- (d) All of the above

- Which of the following is *not* a polynomial?
 - (a) $7ab^2 + \frac{2}{3}a^3b^2$
- **(b)** $7ab^2 + 4a^3b^2$

(c) $7ab^2 + \frac{2a^3}{3b^2}$ (d) $-7ab^2$ in polynomial

- Which of the following is a polynomial?
 - (a) $7ab^2 + \frac{2}{3}a^3b^2$
 - (b) $7\sqrt{ab^2} + 4a^3b^2$ (c) $7ab^2 + \frac{2a^3}{3b^2}$
- (d) $\frac{1}{-7ah^2}$
- Which of the following is an algebraic representation of the phrase "one-third of a number?"

(c) $\frac{1}{x^3}$

(d) $\frac{1}{3} + x$

Fill in the Blanks (5 KU)

- 12. Complete the following statements:
 - (a) "Evaluate an expression" means perform calculations to obtain a final numeric answer.
 - (b) "Simplify an expression" means write the expression in a simpler form.
 - (c) When $-3(-3)-10(-3)(5)^2$ is evaluated, the result is 759 = 9 (-30)(25) = 9 (-750) = 759(d) The expression $3ab^2 10ab^2$ can be simplified because the terms are like.

 (e) The expression $3ab 10ab^2$ cannot be simplified because the terms are unlike.

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