



# MATH TEST

## 8<sup>th</sup> Grade – III Partial



Student's Name: \_\_\_\_\_

Teacher's Name: Juan Carlos Gutierrez Score: \_\_\_\_\_

School Year: 2020 – 2021

Points: **35%**

Topics: Subtracting like terms, Operational order in Algebraic expressions, evaluating an Algebraic Expression and Multiplying powers.

Date: \_\_\_\_\_

Teacher Comment:

### PART I. TRUE OR FALSE

5 pts. (1 pt. each)

**Instructions:** Write in the parenthesis a **T** if the statement is true and an **F** if it is false. If the answer is false, justify your answer by filling in the blank.

1. **Like terms** in a Polynomial can also be subtracted.....
2. The terms  $6x$  and  $4x$  are **like terms** since they have the same coefficient.....
3. **In Algebra** expressions are solved in a certain order.....
4. To **evaluate an algebraic expression** means to find the value of an algebraic expression by substituting numerical values for the letters .....
5. To **multiply powers** that have the same base, add not the exponents and keep the same base.....

### PART II. MATCHING

6 pts. (1 pt. each)

**Instructions:** Match the word from column A that best matches each definition in Column B.

#### COLUMN A

1. First
2. four
3. Second
4. Third
5. Evaluate algebraic expressions
6. Like terms

#### COLUMN B

- \_\_\_\_\_ Solve the powers.
- \_\_\_\_\_ Do the multiplication and division in the order in which they appear.
- \_\_\_\_\_ Solve expressions inside parenthesis.
- \_\_\_\_\_ Do the addition and subtraction.
- \_\_\_\_\_ subtract the numerical coefficients and keep the same literal coefficient.
- \_\_\_\_\_ remember to use the correct order of operations.

**PART III. PRACTICE****24 points.****Instructions:** Solve the following exercises about Algebra.**1. Solve the following exercises to subtract. (8 pts. – 2 e/o)**

|                                                        |                                                          |
|--------------------------------------------------------|----------------------------------------------------------|
| $\begin{array}{r} 23mn \\ -17mn \\ \hline \end{array}$ | $\begin{array}{r} 10mn \\ -6mn \\ \hline \end{array}$    |
| $\begin{array}{r} 11ax \\ -5ax \\ \hline \end{array}$  | $\begin{array}{r} 34s^2 \\ -16s^2 \\ \hline \end{array}$ |

**2. Simplify the polynomials. (8 pts. – 2 e/o)**

|                        |                            |
|------------------------|----------------------------|
| $11x - 7x - 2x =$      | $21x^2y + 3xy - 2xy =$     |
| $13x + 4x - 6x + 3x =$ | $11ax - 6ax + 4xy + 3ax =$ |

**3. Solve the following expressions. (4 pts. – 2 e/o)**

|                    |                      |
|--------------------|----------------------|
| $(5 - 4)(6 + 2) =$ | $6^2 - 4 \times 2 =$ |
|--------------------|----------------------|

**4. Evaluate if  $x = 4$  and  $y = 5$ . (4 pts. – 2 e/o)**

|            |                 |
|------------|-----------------|
| $x^2y^2 =$ | $6x^2 + 3y^2 =$ |
|------------|-----------------|

**"Success consists of going from failure to failure without loss of enthusiasm." – Winston Churchill**

**Mr. Gutierrez**