MATH TEST
8th Grade – IV Partial

Student's Name:

Teacher's Name: Mr Gutierrez   **Score:** _____

School Year: 2020 – 2021   **Points:** 35%

Topics: Equations, Eliminating fractions in equations, word problems Formulas, tables and graphs.

Date:

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. **Equations** is a mathematical sentence which states that two quantities are equal..

2. There may be an **unknown number** in the equation, represented by a letter...................

3. **To eliminate the fraction or fractions,** multiply each term of the equation by the l.c.d.......

4. **A formula** is an algebraic equation that expresses a rule ....

5. **A table** is a chart that indicates corresponding values of variables..

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	COLUMN B
1. Value of *n*	_____ is the smallest number that the denominators will evenly divide.
2. A formula	_____ can be expressed in a graph.
3. A table	_____ is a formula expressing the law of work.
4. A formula and a table	_____ can be used to represent a formula.
5. The formula W=fd	_____ can be formed when the rule is known.
6. The l.c.d	_____ varies depending on how much flour is bought.

PART III. PRACTICE   24 points.

Instructions: Solve the following exercises about Algebra.

1. **Solve these equations. Check each answer. (8 pts. – 2 e/o)**

$X - 3 = 12$	$8m = 24$
$5x = 25 - 10$	$2x + 6 = 22$

2. **Solve the equations by multiplying both sides by the reciprocal of coefficient of x. Check the answer. (8 pts. – 2 e/o)**

$\dfrac{1}{6}x = 3$	$\dfrac{2}{3}x = 5$
$\dfrac{4}{5}x = \dfrac{5}{4}$	$\dfrac{1}{3}x = 4$

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

Four times a certain number is 92. What is the number?	Three less than three times a number is 45. What is the number?

4. **Write a rule and a formula for each of the following questions. (4 pts. – 2 e/o)**

Apples sell for $1.80 per pound. What is the cost of p pounds?	A book sells for $8.95. How much would x books cost?