



MATH TEST

7th 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: _____

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. **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

1. Value of n
2. A formula
3. A table
4. A formula and a table
5. The formula $W=fd$
6. The l.c.d

COLUMN B

- _____ is the smallest number that the denominators will evenly divide.
- _____ can be expressed in a graph.
- _____ is a formula expressing the law of work.
- _____ can be used to represent a formula.
- _____ can be formed when the rule is known.
- _____ 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)

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

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

Mr. Gutierrez