



# MATH QUIZ

## 7<sup>th</sup> grade – IV Partial



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

Teacher's Name: Mr. Gutierrez

Score: \_\_\_\_\_

School Year: 2020 – 2021

Points: **20%**

Topics: Multiplying powers, Dividing powers, Multiplying monomials

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

Teacher Comment:

### PART I. TRUE OR FALSE

6 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.

- To **multiply powers** that have the same base, add exponents and keep the same base...
- To solve the problem  $x^6 / x^3$  write out the problem in long form .....
- One rule for **dividing powers** is to divide powers that have the same base when the dividend exponent is greater than the divisor exponent.....
- To divide powers **subtract** the dividend exponent from the divisor exponent and write as **a fraction** .....
- To **multiply a monomial by a monomial**, multiply the numerical coefficients together and multiply the literal coefficients together.....
- Is this monomial correct?  $(4xy)(2x^2y) = 8x^3y^2$ .....

### PART II. PRACTICE

14 pts (1 pt. each)

**Instructions:** Solve the following exercises about Multiplying Powers, Dividing Powers and Multiplying Monomials.

1. **Multiply. Do not solve numerical coefficients. (5pts. / 1pt. each)**

a)  $5^4 \cdot 5^2 =$

b)  $6^3(6^2) =$

c)  $x^3 \cdot x \cdot x^4 =$

d)  $x^3(x^2)(y^3)(y) =$

e)  $5^2(5)(5^5) =$

2. Divide. (3pts. / 1 pt. each)

a)  $\frac{x^9}{x^8} =$

b)  $\frac{a^7}{a^4} =$

c)  $\frac{m^4}{m^3}$

3. Complete the chart. (4pts. / 1pt. each)

| Algebra        | English                  |
|----------------|--------------------------|
| $y^3 - 4$      |                          |
|                | Eight added to x times x |
|                | One half x times y       |
| $2(x^2 + y^2)$ |                          |

4. Multiply these monomials.

(2 pts. / 1pt. each)

a)  $(6x)(5y) =$

b)  $(5a)(2b)(6c) =$



"The only person who is educated is the one who has learned how to learn ...and change."

**Mr. Gutierrez**