



MATH QUIZ

8th 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