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.**

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

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) $5^4 . 5^2 =$

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

c) $x^3 . x . x^4 =$

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

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

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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

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