



MATH QUIZ

6th grade – III Partial



Student's Name: _____

Teacher's Name: Mr. Gutierrez Score: _____

School Year: 2020 – 2021 Points: 20%

Topics: Greatest common factors, Least common factors, Exponents.

Date: _____

Teacher Comment:

PART I. TRUE OR FALSE

4 pts. (0.5 pts. 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.

- The product of the common prime factors is the **gcf**.
- A **multiple** of a number is the product of the number multiplied by a whole number
- A number has not **endless** multiples.....
- The **least common multiple** is the smallest multiple that is shared by two or more numbers.
- Exponents** can be used to express prime factors.....
- Exponents** are small numbers written a little to the right and above of a number
- The **exponent** does not show how many times the base is used as a factor.....
- The number **2²** is read two squared and means two is used as a factor twice.....

PART II. COMPLETE

6 pts. (1 pt. each)

Instructions: Check if the number in the column is divisible by the number in the row.

	2	3	4	5	6	9	10
810							
475							
300							
624							
513							
906							

PART III. PRACTICE**10 pts (1 pts each)**

Instructions: Solve the following exercises about Greatest common factors, least common multiples and exponents.

A) Instructions: Solve the Greatest Common factors exercises that are below. (3%)

a). 9; 21 **gcf** = _____

$$\begin{array}{|c|} \hline 9 \\ \hline \end{array} \quad \begin{array}{|c|} \hline 21 \\ \hline \end{array}$$

b). 42; 48 **gcf** = _____

$$\begin{array}{|c|} \hline 42 \\ \hline \end{array} \quad \begin{array}{|c|} \hline 48 \\ \hline \end{array}$$

c). 16; 20 **gcf** = _____

$$\begin{array}{|c|} \hline 16 \\ \hline \end{array} \quad \begin{array}{|c|} \hline 20 \\ \hline \end{array}$$

B) Instructions: Find the least common multiple of the numbers after the prime factors have been found. (4%)

a). 12; 18 **lcm** = _____

b). 5; 9 **lcm** = _____

c). 6; 8 **lcm** = _____

d). 4; 6 **lcm** = _____

C) Instructions: Complete the exercises writing the correct exponent. (3%)

Example: $4 = 2 \cdot 2 = 2^2$

a) $8 =$ _____

b) $16 =$ _____

c) $72 =$ _____

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

Mr. Gutierrez