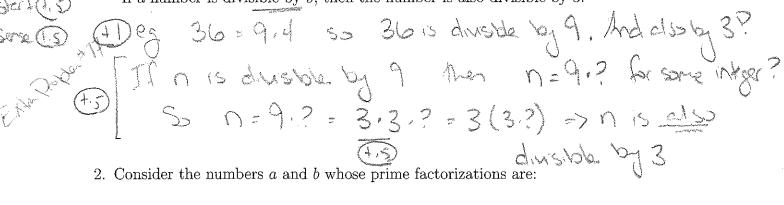
Quiz 6

LQM

This is a two-stage quiz. During the first stage, use your knowledge & calculator to take this quiz. You have 15 min. In the second stage, you are now welcome to use your books, notes, and students in the class to retake the same quiz. You have 15 min. to write one solution (with everyone's name on it!!!) to be turned in for the group.

Show your work as you would for a *colleague*. Partial credit requires reasonable support.

1. [3] Consider the statement below. If the statement is true provide some reasoning for why (examples are not enough). If the statement is false, provide a counterexample. "If a number is divisible by 9, then the number is also divisible by 3."



$$a = 2^3 \times 3 \times 5 \times 11^3 \times 13 \times 17 \text{ and } b = 2^2 \times 5^2 \times 11^2 \times 13^2$$

(a) [2] Find the GCF(a, b). (Writing the prime factors is fine.)

@ all Pleases that a and by both share

(b) [2] Find the LCM(a,b). (Writing the prime factors is fine.)

DC 23x3x5 x113 x13x 17 x5x13 23x3x52 x113x133 x17 3. [3] Dr. Card has 63 inches of purple string and 42 inches of gold string. What are the

largest pieces he can cut these strings so that each piece is the same length and all the string is used?

string is used?

We are looking for a larger that divides 63 AND42

So a fector of 63 AND42.

We went the largest P So find GCF(63,42)

63 42 3 So 7.3 of 21 indes with