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ML Ch. 4 Quest Practice Test

1. List all of the factors of 270

2. Given the number: 1050 Explain whether it is divisible by the following numbers and WHY!
   a. 3

   b. 4

   c. 6

   d. 8

   e. 12

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3. Make a factor tree for 720. Then write out the prime factorization of the number both ways (with and without exponents).

4. What is a definition of a prime number? Explain and give an example.

5. What is a definition of a composite number? Explain and give an example.

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6. Find the GCF (Greatest Common Factor) of each set of numbers.
   a. 60, 150

   b. 48, 128, 144

7. Give an example of 2 relatively prime numbers. Explain why they are relatively prime.

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8. Find the LCM (Least Common Multiple) of the group of numbers.
   a. 60, 84

   b. 18, 60, 56

9. Hot dogs come in packages of 8 and buns come in packages of 12. What is the least number of packages of each that should be bought so there are an equal number of hot dogs and buns?

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10. You are giving out goodie bags at your birthday. You have 18 yo-yo's, 24 bottle rockets, and 30 fake mustaches and you want to be able to give the same amount of goodies in each bag, no leftovers. What is the greatest number of bags you can make? How many yo-yo's, bottle rockets, and fake mustaches will be in each bag?

11. Practice on IXL!
    a. Your login: first,last,394 (no spaces or commas)
    b. Your password: bwood,# (your number in math class)
    c. Search for Greatest Common Factor (sixth grade), Least Common Multiple (sixth grade), Prime Factorization (sixth grade), or Divisibility Rules (sixth grade)