

Name: _____

Date: _____

Course: _____

Nyack College

College MATH

QUIZ #2

Directions: Provide complete responses to each question. Make sure to show your work.

1. FIND THE GREATEST COMMON FACTOR (***GCF***) OF THE FOLLOWING NUMBERS USING ANY OF THE PRIME FACTORIZATION METHODS:

a. 12 and 96

b. 28 and 58

c. 63, 126 and 252

2. FIND THE LEAST COMMON MULTIPLE (***LCM***) FOR THE FOLLOWING NUMBERS USING ANY OF THE PRIME FACTORIZATION METHODS:

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a. 24 and 98

b. 38 and 78

c. 64, 126, and 252

3. FIND THE GREATEST COMMON FACTOR (**GCF**) AND THE LEAST COMMON MULTIPLE (**LCM**) OF THE FOLLOWING NUMBERS USING ANY OF THE PRIME FACTORIZATION METHODS:

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a. 15, 30, 36, and 75

b. 25, 50, 56, and 105

Word Problems

Answer the following.

1. Grandma Smith takes different medicine for her health on specific days. Every third day, she takes a green pill and every fourth day, she takes a red pill.

How many times during the last six months (180 days) did Grandma Smith take a green and a red pill on the same day? Explain your answer.

2. Paul works out at the YMCA on a regular basis. Every third day, he runs on the treadmill. Every fifth day, he swims laps in the pool. Every seventh day, he lifts weights.

How many times during 2013 did Paul run on the treadmill, swim and lift weights on the same day at the YMCA? Explain your answer.

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4. SOLVE THE FOLLOWING WORD PROBLEMS