**Greatest Common Factor ~ Least Common Multiple Homework** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **List the factors of each number**

12 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

50 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **List the first five multiples for each number**

2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Find the GCF of each pair of numbers.**
2. and 40   
    16: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:

40: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Find the LCM of each set of numbers**

3, 5, and 10 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:

5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Word Problem Practice:**

**\*\*Write all your answers in complete sentences. Do not just write a number, tell what that number means and represents from the problem.**

1. As part of its grand opening, a store is going to award prizes to customers as they enter the building. Every 8th customer will get a $5.00 gift card, and every 12th customer will get a 20% off coupon. Which customer will be the first to get both gifts?
2. There are 40 girls and 32 boys who want to participate in   
   6th grade intramurals. If each team must have the same number of girls and the same number of boys, what is the greatest number of teams that can participate in intramurals?

How many girls and boys will be on each team? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Monica was making candy bags for her party. She made one for each person coming to the party not including herself. She had 14 lollipops, 42 gumballs and 35 small chocolate bars. All the bags had the same amount of each candy and nothing was left over. How many bags did she make?

How many of each type of candy will be in each candy bag?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Kiara baked 30 oatmeal cookies and 48 chocolate chip cookies to package in plastic containers for her teacher friends at school. She wants to divide the cookies into identical containers so that each container has the same number of each kind of cookie. If she wants each container to have the greatest number of cookies possible, how many plastic containers does she need?
2. You and three friends go to lunch and find a deal on packages of 6 tacos. You want to buy the minimum number of packages so you each get the same number of tacos and none are left over. How many packages must you buy?