Name_____

GCF and LCM Word Problems

Date_____ Period____

Solve each problem.

1) Natalie is filling goody bags. She has 40 bouncy balls and 30 tattoos. She wants to divide the toys evenly to make the greatest number of identical goody bags, with no leftover toys. How many goody bags can she fill?

2) Gabriella is making fruit baskets. She has 28 oranges and 35 apples. She wants to divide the fruit evenly to make the greatest number of identical baskets, with no leftover fruit. How many baskets can she make?

3) Cody is assembling first aid kits. He has 12 bandages and 18 gauze pads. He wants to divide the supplies evenly to assemble the greatest number of identical kits, with no leftover supplies. How many kits can he assemble?

4) Jacob is making bouquets. He has 18 tulips and 12 carnations. He wants to divide the flowers evenly to make the greatest number of identical bouquets, with no leftover flowers. How many bouquets can he make?

5) The community center hosts a chess club every 15 days and a science club every 6 days. If both clubs met today, in how many days will they both meet again on the same day?

6) A hypothetical species of cicada emerges from the ground every 10 years. A different species emerges every 15 years. If both species emerged this year, in how many years will they both emerge again on the same year?

7) Matt is stacking boxes in two stacks. The first stack has boxes that are 15 inches tall. The second stack has boxes that are 10 inches tall. What is the shortest height at which both stacks will have the same height?

8) Amy is buying cups and plates for a party. The cups come in packs of 4 and plates come in packs of 6. She wants to purchase the fewest cups and plates possible, but wants to have the same number of each. How many cups and plates does she need to buy?

Name_____

GCF and LCM Word Problems

Date_____ Period____

Solve each problem.

1) Natalie is filling goody bags. She has 40 bouncy balls and 30 tattoos. She wants to divide the toys evenly to make the greatest number of identical goody bags, with no leftover toys. How many goody bags can she fill?

10 goody bags

2) Gabriella is making fruit baskets. She has 28 oranges and 35 apples. She wants to divide the fruit evenly to make the greatest number of identical baskets, with no leftover fruit. How many baskets can she make?

7 fruit baskets

3) Cody is assembling first aid kits. He has 12 bandages and 18 gauze pads. He wants to divide the supplies evenly to assemble the greatest number of identical kits, with no leftover supplies. How many kits can he assemble?

6 kits

4) Jacob is making bouquets. He has 18 tulips and 12 carnations. He wants to divide the flowers evenly to make the greatest number of identical bouquets, with no leftover flowers. How many bouquets can he make?

6 bouquets

5) The community center hosts a chess club every 15 days and a science club every 6 days. If both clubs met today, in how many days will they both meet again on the same day?

30 days

6) A hypothetical species of cicada emerges from the ground every 10 years. A different species emerges every 15 years. If both species emerged this year, in how many years will they both emerge again on the same year?

30 years

7) Matt is stacking boxes in two stacks. The first stack has boxes that are 15 inches tall. The second stack has boxes that are 10 inches tall. What is the shortest height at which both stacks will have the same height?

30 inches

8) Amy is buying cups and plates for a party. The cups come in packs of 4 and plates come in packs of 6. She wants to purchase the fewest cups and plates possible, but wants to have the same number of each. How many cups and plates does she need to buy?

12 cups and plates