

Name: Class:

GCF and LCM word problems

- ❖ After having a merchandise truck delivered to a customer, a manager no longer remembers the number of boxes shipped. Once the truck driver has returned to the agency, both men try to remember the stock delivered. According to the manager, the number of boxes delivered was a multiple of 4. The driver states that it is also a multiple of 12. In your opinion, what could be the smallest number that fits the description?

- ❖ A chocolatier wants to arrange 12 triangular-shaped chocolates and 20 square-shaped chocolates in the same box and in equal rows. Except that he wants only one type of shape (triangular or square) to come in a row. What is the greatest number of chocolate that he can put in the same row?

- ❖ Lidia is an event planner and she want to make arrangements of soda on long tables for a meeting conference. She has 32 Pepsi cans, 16 Coca-Cola cans, 48 diet soda cans, and 36 Fanta cans. Each arrangement on the table must have the same number of each soda can.
 - a. What is the greatest number of tables that she can arrange the soda cans on if every can is used?
 - b. How many cans of each type of soda will be per table?

- ❖ There are 28 boys and 35 girls in Miss Mariam class. To compete for the upcoming science fair, the pupils must be divided into teams. If the teams must have an equal number of boys and girls,
 - a. What is the greatest number of teams Miss Mariam can make if every student must be on a team?
 - b. How many boys and girls must be on a team?

- ❖ During Halloween, my family and I were making trick or treat baskets. We have 90 Haribo Gummies, 126 Starbursts, 144 M&M's, 108 Skittles, and 36 Twizzlers.
 - a. What is the greatest number of basket we can make with an even amount of each type of candy per basket?
 - b. How many of each type of candy is in each basket?

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1. Let's look at the possible number of boxes obtained with each multiple each time 4 boxes and 12 boxes are delivered.

Multiples of 4 are : 4, 8, 12, 16, 20, 24, 28, 32, 36 ...

Multiples of 12 are : 12, 24, 36, 48 ...

The LCM of 4 and 12 is: 12

➡ Therefore, the smallest number that fits the description is 12.

- ❖ There are 5 square-shaped chocolates and 3 square-shaped chocolate per row of 4.
- ❖ a- So, she can arrange the soda cans on 5 tables without any cans leftover.
b- So, each table will have 8 Pepsi cans, 4 Coca-Cola cans, 12 diet cans, and 9 Fanta cans.
- ❖ a- So, Miss Mariam can make 7 teams if every student must be on a team.
b- So, there must be 5 girls and 4 boys on a team.
- ❖ a- So, we can make 18 baskets with an even amount of each type of candy per basket.
b- So, there are 5 Haribo Gummies, 8 M&M's, 7 Starbursts, 6 Skittles, and 2 Twizzlers in each basket.