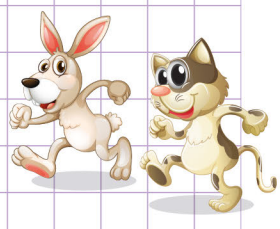
mathskills4kids

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?



Solution

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- 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?

1. Let's look at the possible number of boxes obtained wth 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.

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1. We have to obtain the greatest number that can be used to divide both 12 and 20.
   $12 = 2 \times 2 \times 3$
   $20 = 2 \times 2 \times 5$ | Good that number is 4.

2. The greatest number of chocolate per shape in each row is 4.
   There are 5 square-shaped chocolates and 3 square-shaped chocolate per row of 4.