Problems on HCF and LCM



We can solve daily life problems by using the concept of HCF and LCM.

When to use LCM or HCF?

- When we have to find a number larger than given numbers, then we find LCM.
- If we have to find smaller number than given numbers, then we find HCF.

Let us understand with some examples:



Example: Vijay's friend asked him to bring the same number of chocolates and biscuits. The store sells chocolates in packs of 50, biscuits in packs of 20. Find how many chocolates Vijay will buy from the store?

Solution:

The store sells chocolates in packs of 50, biscuits in packs of 20.

Vijay has to buy the same number of chocolates and biscuits.

Now we have to find the LCM of Chocolates and Biscuits.

i.e. LCM (50,20)

$$50 = 2 \times 5 \times 5 = 2 \times 5^2$$

$$20 = 2 \times 2 \times 5 = 2^2 \times 5$$

LCM (50, 20) =
$$2^2 \times 5^2$$

$$= 4 \times 25 = 100$$

