Lowest Common Multiple (LCM)

The first multiple which is common to two or more than two numbers is known as least common multiple **(LCM)**.

Let us understand with some Examples:

Example1: Find the 1st 5 multiples of 3 and 4. Also find the common multiples.

Solution: Multiples of 3- 3 6 9 12 15 Multiples of 4- 4, 8, 12, 16, 20, 24 is a multiple of 3 as well as of 4.

Hence 12 is a least common multiple of 3 and 4.

Example2: Find the first 10 multiples of 2 and 5. Also find the common multiples among them. What is the LCM of 2 and 5?

Solution: Multiples of 2:- 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

Multiples of 5:- 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

10 and 20 are the multiples of 2 as well as of 5.

Hence 10 and 20 are the common multiples of 2 and 5. LCM of 2 and 5 is 10.