## **Common Factors and Common Multiples**

**Common Factors:** Common factors are defined as factors that are common to two or more numbers. In other words, a common factor is a number with which a set of two or more numbers will be divided exactly.

Steps to find Common Factors are:
Step 1: Write the factors of the given numbers.
Step 2: Find the common factor present in them.

## → Let us see some examples here.

AF

**Example:** Common factors of 15 and 25 **Solution:** Let us check the factors of the two numbers, i.e., 15 and 25.

15 = 1, 3, 5, 15 25 = 1, 5, 25 We can see that both 15 and 25 have 5 as the common factor.

Example: Common Factors of 12 and 18 Solution: First, we need to write all the factors of 12 and 18. Factors of 12 = 1,2,3,4,6, 12 Factors of 18 = 1,2,3,6,9, 18

Clearly, we can see that the common factors between 12 and 18 are 1,2,3 and 6.

**Common Multiples:** Multiples that are common to two numbers are known as common multiples of those numbers.

Let us understand with the help of an example. Example: Multiples of 30 and 45 are – Solution: 30 = 30, 60, 90, 120, 150, 180, 210, 240, 270..... 45 = 45, 90, 135, 190, 225, 270...... We see that 90 and 270 are the first two common multiples of 30 and 45.