## **Prime Factorisation**

The factorization is a process by which a whole number is broken down (factorized) into factors and if each factor is a prime number, then such factorization of a number is called the prime factorization.

Every number greater than 1 has exactly one prime factorization.

Steps to find prime factorization are:

Step 1 : Divide the number by the least (smallest) prime number.Step 2: Continue the process until a prime number is obtained as the remainder.

Let us understand with the help of some examples: Example: Find the prime factorization of 24.

Solution:	2 24	
	2 12	Hence, the prime factorization of 24
	2 6	= 2×2×2×3
	3	

**Example:** Find the prime factorization of 30.

Solution:	2	30	
	3	15	Hence, the prime factorization of 30
		5	= 2×3×5