

## FACTORS AND MULTIPLES

1. **Factors** : A number which divide the given number exactly called a factor of given number.
2. **Example** : Find the factor of 24

Solution :  $24 = 1 \times 24$

$$= 2 \times 12$$

$$= 3 \times 8$$

$$= 4 \times 6$$

Therefore , 1,2,3,4,6,8,12,24 are the factor of 24

3. **Multiple** : A multiple of a number is a number obtained by multiplying it by a natural number.
4. **Example** : Find out the first five multiples of (i) 5

**Solution** : (i) We get ,  $5 \times 1 = 5$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

Hence , 5,10,15,20,25 are the first five multiples of 5

5. Some Special Type of Numbers:
  - I. Prime Number
  - II. Composite Number
  - III. Even Number
  - IV. Odd Number
  - V. Twin Number
  - VI. Co-prime Number
  - VII. Perfect Number
  - VIII. Consecutive and Alternate Number
  - IX. Prime Triplicate
6. Test of Divisibility
7. Prime Factorization
8. Highest Common Factor (H.C.F.)
9. Lowest Common Multiple (L.C.M.)