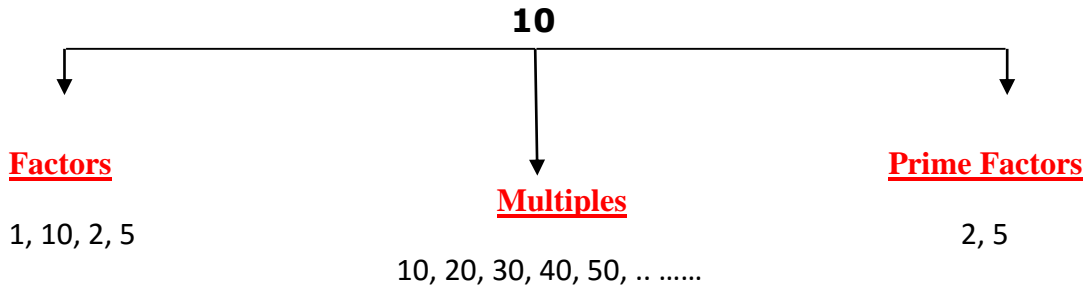


## Lesson 2: Factors, Multiples, HCF and LCM

### Explaining example:

#### A. Factors and multiples of 10:



### Class work practice:

1. Write down
  - a. A common factor of 15 and 27, which is greater than 1,
  - b. A common multiple of 10 and 12.
  - c. Two of the factors of 2007 are square numbers. One of these is 1. Find the other square number.
2. Write down the factors of 48 which are between 10 and 40.

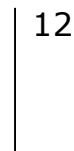
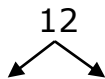
### Explaining example:

Write 12 as a product of its prime factors in an index form

**Method A:** tree diagram

**Method B:** column method

**Hint:** write all factor pairs of 12



12 = .....



**Class work practice:**

1. Write down 40 as a product of prime numbers.
2. Write down 18 as a product of prime numbers.
3. Write down 100 as a product of prime numbers.

**B. HCF : highest common factor**

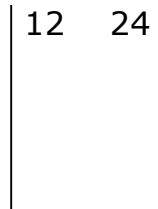
**Explaining example:**

Find HCF of 12 and 24

**Method A:**



**Method B:**



HCF = .....

**Class work practice:**

Find HCF of:

- a. 24, 36
- b. 12, 16, 24



**LCM:** lowest common multiple:

Find LCM of 4 and 6

**Method A:**

Multiples of 4 =  
TILL U REACH THE ones

Multiples of 6 =

**Method B:**

**Key words:** DON'T STOP

4, 6

LCM = .....

**Class work practice:**

Find LCM of

**a.** 6, 10, 15

**b.** 12, 18