

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

## Rapid Fire Quiz

State whether the following statements are true or false by tick (✓) marking in the box:

- Every composite number can be factorised as a product of primes and this factorisation is unique, apart from the order in which the prime factor occur.
- The decimal expansion of  $\sqrt{5}$  is non-terminating recurring.
- Prime factorisation of 300 is  $2^2 \times 3 \times 5^2$
- $\frac{\sqrt{72}}{\sqrt{50}}$  is an irrational number.
- If  $\frac{p}{q}$  is rational number, such that the prime factorisation of q is of the form  $2^n \times 5^m$  where n, m are non-negative integers, then  $\frac{p}{q}$  has a decimal expansion which terminates.
- Any positive odd integers is of the form  $6p + 1$  or  $6p + 3$  or  $6p + 5$ , where p is some integer.
- $\frac{7}{2^2 \times 5}$  has non-terminating decimal expansion.
- The largest number which exactly divides 12 and 60 is 4.
- The least number which is exactly divisible by 8 and 12 is 24.
- If LCM and HCF of 18 and x are 36 and 6 respectively, then  $x = 12$ .
- $\frac{17}{18}$  has terminating decimal expansion.