

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

Tick the correct answer for each of the following:

1. If x and y are prime numbers, then HCF of  $x^3y^2$  and  $x^2y$

(a)  $x^3y^2$

(b)  $x^2y^2$

(c)  $x^2y$

(d) xy

Sol.

2. If  $(-1)^n + (-1)^{4n} = 0$ , then n is

(a) any positive integer

(b) any odd natural number

(c) any even natural number

(d) any negative integer

Sol.

3. If x and y are prime numbers, then LCM of  $x^3y^2$  and  $x^2y^3$

(a)  $x^3y^2$

(b)  $x^3y^3$

(c)  $x^2y^3$

(d) none of these

Sol.

4. Decimal expansion of a rational number is

(a) always terminating

(b) always non-terminating

(c) either terminating or non-terminating recurring

(d) none of these

Sol.

5. The decimal expansion of the rational number  $\frac{14587}{1250}$  will terminate after

(a) one decimal place

(b) two decimal places

(c) three decimal places

(d) four decimal places

Sol.