

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

1. State whether the following statements are true or false. Justify your answer.

i. The product of two consecutive positive integers is divisible by 2.

ii. $3 \times 5 \times 7 + 7$ is a composite number.

iii. Use Euclid's division algorithm to find the HCF of 81 and 237.

iv. Prove that for any prime positive integer p , \sqrt{p} is an irrational number.

v. Prove that the product of three consecutive positive integers is divisible by 6.

vi. Using prime factorisation method, find the HCF and LCM of 72, 120 and verify that $\text{LCM} \times \text{HCF} = \text{product of the two numbers}$.
