

Class 10 Mathematics - Real Numbers

Name: _____

Date: _____

Medium Worksheet 2

Questions

1. Find the HCF of 24 and 90 using prime factorisation.
2. Find the LCM of 24 and 90 using prime factorisation.
3. Verify that: $\text{LCM} \times \text{HCF} = \text{Product of the numbers}$
4. Find the HCF of 54 and 72.
5. Find the LCM of 54 and 72.
6. What is the HCF of two consecutive natural numbers?

Answer Key

1.

$$24 = 2^3 \times 3$$

$$90 = 2 \times 3^2 \times 5$$

$$\text{HCF} = 2 \times 3 = 6$$

2.

$$\text{LCM} = 2^3 \times 3^2 \times 5$$

$$= 360$$

3.

$$360 \times 6 = 2160$$

$$24 \times 90 = 2160$$

Verified

4.

$$\text{HCF} = 18$$

5.

$$\text{LCM} = 216$$

6. 1

