Class 10 Mathematics · Chapter 1: Real Numbers

Worksheet · 20 marks · about 40 minutes · based on NCERT

Name _____ Class and section _____ Date _____

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1. The HCF of $2^3 \times 5^2 \times 7$ and $2^2 \times 5^3 \times 11$ is [1]

(a) 10 (b) 20
(c) 1000 (d) 100

2. Which of the following is irrational? [1]

(a) $\sqrt{196}$ (b) 2.5
(c) $\sqrt{50}$ (d) $\frac{22}{7}$

3. In the prime factorisation of 1764, the power of 7 is [1]

(a) 1 (b) 3
(c) 2 (d) 4

4. The LCM of 11, 13 and 19 is [1]

(a) 2717 (b) 1
(c) 143 (d) 247

5. If a and b are two different primes, the LCM of a^2b^3 and a^3b is [1]

(a) a^3b^3 (b) a^2b
(c) a^5b^4 (d) ab

6. Find the HCF and LCM of 84 and 126 by prime factorisation. [2]

7. Can 14^n end with the digit 5 for any natural number n? Give a reason. [2]

8. Find the least natural number that is divisible by every number from 1 to 10. [2]

9. Two numbers are in the ratio 3 : 7 and their LCM is 357. Find the numbers and their HCF. [3]

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10. Given that $\sqrt{7}$ is irrational, prove that $\frac{3 - 2\sqrt{7}}{5}$ is irrational. [3]

11. Find the HCF and LCM of 28, 42 and 70 by prime factorisation, and show that their product is not the product of the three numbers. [3]