

CBSE Class 10 - Chapter 1: Real Numbers

□ Test Paper (Marks: 15 | Time: 45 minutes)

Section A – 1 Mark Each

1. Find the HCF of 60 and 75 by applying the prime factorisation method..
2. Write the decimal expansion of $\frac{7}{8}$ and state whether it is terminating or non-terminating.

Section B – 2 Marks Each

4. Find the LCM and HCF of 12, 15, and 21 using prime factorisation.
5. Express 140 as a product of its prime factors.
6. Given that $\text{HCF}(306, 657) = 9$, find $\text{LCM}(306, 657)$.

Section C – 3 Marks Each

7. Find the HCF and LCM of 96 and 404 by prime factorisation method. Also verify that $\text{HCF} \times \text{LCM} = \text{Product of the two numbers}$.
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Section D – 4 Marks

8. Prove that $\sqrt{5}$ is irrational.
OR
Prove that $3 + 2\sqrt{5}$ is irrational.