

Class 10
Mathematics
Chapter 1-Real Number

1. Write whether the rational number $\frac{15}{1500}$ will have a terminating decimal expansion or a non-terminating repeating decimal expansion.
2. Find the [HCF & LCM] for the numbers 100 and 190.
3. Find the HCF of 32265 and 625 using Euclid Lemma
4. Prove that $3+\sqrt{2}$ is an irrational number.
5. Prove that $\sqrt{5}$ is an irrational number.
6. Use Euclid's Division Lemma to show that the square of any positive integer is either of the form $3m$ or $(3m+1)$ for some integer m .
7. Show that the square of any positive odd integer is of the form $8m+1$, for some integer m .
8. Prove that $\sqrt{2}$ is irrational
8. Prove that $7+3\sqrt{2}$ is not a rational number.
9. Prove that $2-3\sqrt{5}$ is an irrational number.