REAL NUMBERS

1. Types of real numbers
2. Euclid's Division Algorithm, Finding HCF and application of HCF
3. Fundamental Theorem of Arithmetic.
    - Theorem
    - Finding for a given number a^n, check whether there is any value of n for which a^n ends with the digits zero.
    - Finding LCM, HCF by prime factorization.

4. HCF, LCM product formula.
    - HCF (a, b) x LCM (a, b) = a x b.
    - Finding LCM where HCF of two numbers are given.
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5. Irrational Numbers and "Proof of contradiction"
    - Prove that $\sqrt{2}$ is irrational by applying "proof of contradiction"
    - Prove that $\sqrt{3}$, $\sqrt{5}$ are irrational
    - Prove that $5 - \sqrt{3}$ is irrational
    - Prove that $3\sqrt{2}$ is irrational

6. LCM & HCF of three positive integers p, q, r
    - HCF (p, q, r) x LCM (p, q, r) ≠ p x q x r.
    - Finding HCF of three numbers LCM is given
    - Finding LCM of the numbers when HCF are given.