Class 10 Maths - Most Important Questions (2025-2026)

1. Real Numbers

- Prove that sqrt2 or sqrt3 is irrational.
- Find the HCF of two numbers using Euclid's Division Lemma.
- If HCF(a, b) = h, then find LCM(a, b). (Given values)

2. Polynomials

- Find zeroes of a quadratic polynomial and verify the relationship.
- If alpha and beta are zeroes of a polynomial, find a quadratic polynomial with given zeroes.
- Use division algorithm to divide polynomials.

3. Pair of Linear Equations in Two Variables

- Solve a pair of linear equations using substitution or elimination method.
- Word problem: cost of pens and pencils / taxis / number of workers and wages.
- Draw graphs of pair of equations and interpret the result.

4. Quadratic Equations

- Solve quadratic equations by factorization or quadratic formula.
- Word problem: area/age/money/geometry-related.
- Nature of roots for a given quadratic equation.

5. Arithmetic Progressions

- Find the nth term and sum of first n terms.
- Find number of terms when last term is given.
- Application-based problems (installments, savings).

6. Triangles

- Prove similarity of triangles using criteria (AAA, SAS, SSS).
- Use Basic Proportionality Theorem (BPT).
- Area of similar triangles - prove or solve.

7. Coordinate Geometry

- Find distance between two points.

- Find coordinates of a point dividing a line segment.

- Find area of triangle using coordinates.

8. Introduction to Trigonometry

- Prove trigonometric identities.

- Find trigonometric ratios from a triangle.

- Use complementary angle identities.

9. Some Applications of Trigonometry

- Height and distance problems (1 or 2 right triangles).

- Use given angles like 30°, 45°, 60°.

10. Circles

- Prove: Tangent to a circle is perpendicular to the radius.

- Use: Lengths of tangents from an external point are equal.

11. Constructions

- Construct similar triangles.

- Divide a line segment in a given ratio.

12. Areas Related to Circles

- Find area of shaded region involving circle/sector/segment.

- Use pi = 22/7 unless stated otherwise.

13. Surface Areas and Volumes

- Frustum problems (cone cut into frustum).

- Find volume and surface area of sphere, cone, cylinder, etc.

- Conversion problems (melt and recast).

14. Statistics

- Find mean using assumed mean method.

- Find median and mode from a frequency table.

- Draw cumulative frequency graph and find median.

15. Probability

- Single event problems: dice, coins, cards.

- Find probability of 'not' happening of an event.