Mathematics

Recommended Time Table

Class-8

Chapter Names	Concepts	
1. Number System (12 hours)	• Natural numbers • Whole numbers	
	• Integers	**(1 hour)**
	• Rational numbers • Irrational numbers • Real numbers	**(1 hour)**
	• Even and Odd numbers • Prime and Composite numbers	
	• Fractions • Decimals	**(1 hour)**
	• Tests of divisibility	**(1 hour)**
	• Multiples and Factors • Greatest Common Divisor	**(1 hour)**
	• Least Common Multiple • Relation between LCM and HCF	**(1 hour)**
	• Squares • Square roots	**(1 hour)**
	• Cubes • Cube roots	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
2. Exponents & Radicals (6 hours)	• Exponential Notation • Laws of Exponents	**(1 hour)**
	• Rational Exponents • Radical and Radicand	
	• Laws of rational exponents	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
3. Sets (7 hours)	• Definition of sets • Roster and set builder forms • Types of sets	
	• Equivalent sets • Power set	**(1 hour)**
	• Operations on sets	**(1 hour)**
	• Laws of algebra of sets • Verification of two laws	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
4. Mensuration - I (9 hours)	• Area and Perimeter of triangles	**(1 hour)**
	• Area and Perimeter of Quadrilaterals	**(1 hour)**
	• Area and Perimeter of Circles	**(1 hour)**
	• Polygons	**(1 hour)**
	• Area and Perimeter of Composite figures	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
Term 1	**Chapter 1 - 4** **MCQ - 50**	**50 x 1 = 50**
5. Polynomials - I (6 hours)	• Definition • Classification	
	• Zero of a polynomial	**(1 hour)**
	• Basic operations on polynomials • Properties of polynomials	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
6. Linear Equations (7 hours)	• Linear Equations in one variable	**(1 hour)**
	• Linear Equations in two variables	

Chapter Names	Concepts	
	• Methods of solving simultaneous linear • equations	**(1 hour)**
	• Consistency • Conditions for solvability	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
7. Inequalities - I (7 hours)	• Basic Concepts • Absolute inequations	
	• Conditional inequations	**(1 hour)**
	• Linear inequalities	**(1 hour)**
	• Properties of inequalities	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
Term 2	**Chapter 1 - 7 MCQ - 50**	**50 x 1 = 50**
8. Arithmetic (7 hours)	• Percentages • Application of percentages	**(1 hour)**
	• Ratio • Application of ratios	**(1 hour)**
	• Proportion	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
9. Plane Geometry - I (9 hours)	• Basic Concepts • Lines	**(1 hour)**
	• Angles • Properties of parallel lines	**(1 hour)**
	• Triangles • Properties of triangles	**(1 hour)**
	• Congruent triangles • Similar triangles	**(1 hour)**
	• Concurrent lines in a triangle • Nine point circle	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
10. Co-ordinate Geometry - I (6 hours)	• Basics of co-ordinate geometry	
	• Points on a plane	
	• Plotting of points	**(1 hour)**
	• Reflection of points w.r.t. X and Y axes • Symmetry	**(1 hour)**
	• Problems	**(3 hours)**
	• Doubts Clarification	**(1 hour)**
Grand Test	**Chapter 1 - 10 MCQ - 50**	**50 x 1 = 50**

Chapter	Concept	Problems	Total No.of hours
1. Number System	*8*	*4*	*12*
2. Exponents and Radicals	*2*	*4*	*6*
3. Sets	*3*	*4*	*7*
4. Mensuration - I	*5*	*4*	*9*
5. Polynomials - I	*2*	*4*	*6*
6. Linear Equations	*3*	*4*	*7*
7. Inequalities - I	*3*	*4*	*7*
8. Arithmetic	*3*	*4*	*7*
9. Plane Geometry - I	*5*	*4*	*9*
10. Co-ordinate Geometry - I	*2*	*4*	*6*