

Mathematics

Recommended Time Table

Class-7

Chapter Names	Concepts
1. Sets (5 hours)	<ul style="list-style-type: none"> • Introduction to sets • Venn diagrams (1 hour) • Union and Intersection • Complement • Relation between union and intersection (1 hour) • Problems (2 hours) • Doubt Clarification (1 hour)
2. Rational Numbers (5 hours)	<ul style="list-style-type: none"> • Introduction to numbers • Rational numbers • Rational numbers on number line • Order relation • Comparison of rational numbers (1 hour) • Properties of Rational numbers • Terminating and Non terminating decimals • Irrational numbers • Distinction between rational and irrational (1 hour) • Problems (2 hours) • Doubts Clarification (1 hour)
3. Factors & Multiples (5 hours)	<ul style="list-style-type: none"> • Factors and Multiples • Methods of finding LCM • How to solve various types of problems? (1 hour) • Methods of finding HCF • How to solve various types of problems? • Relationship between LCM and HCF (1 hour) • Problems (2 hours) • Doubts Clarification (1 hour)
4. Cubes & Cube roots (4 hours)	<ul style="list-style-type: none"> • Concept of cubes • Concept of cube roots • Formulae to solve problems (1 hour) • Problems (2 hours) • Doubts Clarification (1 hour)
5. Ratio & Proportion (5 hours)	<ul style="list-style-type: none"> • Ratio • Types of ratios • Comparison of Ratios (1 hour) • Proportion • Mean proportion • Third proportion (1 hour) • Problems (2 hours) • Doubts Clarification (1 hour)
6. Percentage (5 hours)	<ul style="list-style-type: none"> • Concept of percentage • Percentage increase/decrease • Successive increase/decrease • Applications (2 hours) • Problems (2 hours) • Doubts Clarification (1 hour)
7. Profit & Loss (5 hours)	<ul style="list-style-type: none"> • Explaining the terms involved • Concept of profit and loss • Formulae used to solve problems (1 hour) • Problems (3 hours) • Doubts Clarification (1 hour)
8. Simple Interest (4 hours)	<ul style="list-style-type: none"> • Explaining the terms involved • Concept of Simple Interest • Formulae to solve problems (1 hour) • Problems (2 hours) • Doubts Clarification (1 hour)

Chapter Names	Concepts		
Term 1	Chapter 1 - 8	MCQ - 50	50 x 1 = 50
9. Compound Interest (5 hours)	<ul style="list-style-type: none"> Explaining the terms involved • Concept of Compound Interest Formulae to solve problems • Problems involving SI and CI (2 hours) Problems (2 hours) Doubts Clarification (1 hour) 		
10. Identities (6 hours)	<ul style="list-style-type: none"> Multiplication of algebraic expressions • Division of algebraic expressions Special products • Application of formulae (2 hours) Problems (3 hours) Doubts Clarification (1 hour) 		
11. Factorisation (6 hours)	<ul style="list-style-type: none"> Formulae • Various types of problems (2 hours) Problems (3 hours) Doubts Clarification (1 hour) 		
12. Simple Equations (4 hours)	<ul style="list-style-type: none"> Simple linear equations in one unknown • Equations involving brackets Simple fractional equations • Forming linear equations to solve problems (1 hour) Problems (2 hours) Doubts Clarification (1 hour) 		
13. Triangles and Polygons (8 hours)	<ul style="list-style-type: none"> Introduction to congruency Congruent triangles (1 hour) Altitude, Median, Angular bisector • Incentre Excentres • Nine point circle (1 hour) Properties of Quadrilaterals (1 hour) Introduction to polygons • Properties of a polygon Sum of the angles in a polygon (1 hour) Problems (3 hours) Doubts Clarification (1 hour) 		
Term 2	Chapter 1 - 13	MCQ - 50	50 x 1 = 50
14. Circles (5 hours)	<ul style="list-style-type: none"> Properties of circles • Some important theorems on circles (2 hours) Problems (2 hours) Doubts Clarification (1 hour) 		
15. Mensuration (8 hours)	<ul style="list-style-type: none"> Area and perimeter of Quadrilaterals (1 hour) Area and perimeter of Triangles • Area and perimeter of Circles (1 hour) Area of paths • Area and perimeter of composite figures (1 hour) Problems (3 hours) Doubts Clarification (2 hours) 		
16. Solid Geometry (5 hours)	<ul style="list-style-type: none"> Basic Geometric Shapes • Properties of 3D shapes Identifying no. of vertices, faces & edges • Nets (2 hours) Problems (2 hours) Doubts Clarification (1 hour) 		
Grand Test	Chapter 1 - 16	MCQ - 50	50 x 1 = 50

Chapter	Concept	Problems	Total No.of hours
1. Sets	3	2	5
2. Rational Numbers	2	3	5
3. Factors & Multiples	2	3	5
4. Cubes & Cube roots	2	2	4
5. Ratio and Proportion	2	3	5
6. Percentage	2	3	5
7. Profit and Loss	2	3	5
8. Simple Interest	2	2	4
9. Compound Interest	2	3	5
10. Identities	3	3	6
11. Factorisation	2	4	6
12. Simple Equations	1	3	4
13. Triangles and Polygons	4	4	8
14. Circles	2	3	5
15. Mensuration	2	3	8
16. Solid Geometry	2	3	5