



- AI & Future Skills Integration

CLASS-6

Syllabus and Exam Pattern

● SECTION A: NUMBER SYSTEM (25%)

1. Knowing Our Numbers

- Large numbers (Indian & International system)
- Place value, comparison, estimation

2. Whole Numbers

- Properties (closure, commutative, associative)
- Number patterns

3. Integers (Introduction)

- Positive and negative numbers
- Number line representation
- Basic operations

◆ SECTION B: OPERATIONS & APPLICATION (20%)

1. Basic Operations

- Addition, subtraction, multiplication, division

- Multi-step word problems

2. Factors & Multiples

- Prime and composite numbers
 - HCF and LCM (basic level)
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● SECTION C: FRACTIONS & DECIMALS (15%)

1. Fractions

- Proper, improper, mixed
- Simplification
- Addition and subtraction

2. Decimals

- Place value
 - Operations (addition, subtraction)
 - Conversion (fraction ↔ decimal)
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● SECTION D: RATIO, PROPORTION & BASIC ALGEBRA (10%)

1. Ratio (Introduction)

- Simple ratios
- Real-life applications

2. Algebra (Basic)

- Use of variables
 - Simple expressions
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◆ SECTION E: GEOMETRY & MENSURATION (10%)

1. Geometry

- Basic geometrical ideas
- Lines, angles, triangles
- Types of angles

2. Mensuration

- Perimeter and area (basic shapes)
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● SECTION F: DATA HANDLING (5%)

- Bar graphs
- Interpretation of data
- Basic statistics (mean – simple level)

 SECTION G: SMART LOGIC & AI AWARENESS (10%)

(No specific study required)

1. Pattern Recognition

- Number and figure-based patterns
- Series completion

2. Logical & Analytical Thinking

- Multi-step reasoning
- Problem-solving strategies

3. Introduction to AI Thinking

- Understanding how machines follow steps
- Basic idea of data and patterns
- Real-life applications of smart systems

 SECTION H: ADVANCED REASONING & HOTS (5%)

- Number series
- Coding-decoding (number-based)
- Logical puzzles
- Analytical reasoning questions

 Weightage Structure

Section	Area	Weightage
A	Number System	25%
B	Operations & Application	20%
C	Fractions & Decimals	15%
D	Ratio & Basic Algebra	10%
E	Geometry & Mensuration	10%

Section	Area	Weightage
F	Data Handling	5%
G	Smart Logic & AI Awareness	10%
H	Advanced Reasoning & HOTS	5%

Total = 100%

EXAM PATTERN

- Mode: Online / Offline (MCQ Based)
- Total Questions: 50
- Total Marks: 50
- Duration: 50 Minutes

Question Distribution:

- Core NCERT Maths: 40 Questions
 - Smart Logic & AI: 5 Questions
 - Advanced Reasoning & HOTS: 5 Questions
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Important Note

The syllabus is based on NCERT Class 6 Mathematics with enhanced focus on application, reasoning, and problem-solving. The Smart Logic & AI Awareness section is designed to develop analytical and future-ready thinking without requiring any additional preparation.