



- AI & Future Skills Integration

CLASS-4

Syllabus and Exam Pattern

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● SECTION A: NUMBER SYSTEM & OPERATIONS (30%)

1. Numbers (Up to 1,00,000)

- Place value (up to lakhs)
- Number names
- Expanded form
- Comparing and ordering numbers
- Rounding (basic)

2. Addition & Subtraction

- Large number operations
- Estimation
- Multi-step word problems

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◆ SECTION B: MULTIPLICATION & DIVISION (20%)

1. Multiplication

- 2-digit  $\times$  2-digit

- 3-digit  $\times$  1-digit
- Properties (basic understanding)
- Application-based word problems

## 2. Division

- Long division (basic)
  - Division with remainder
  - Real-life word problems
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## ● SECTION C: FRACTIONS & DECIMALS (10%)

### 1. Fractions

- Basic understanding
- Like and unlike fractions
- Comparison
- Simple operations (intro level)

### 2. Decimals (Basic)

- Tenths and hundredths (introductory)
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## ● SECTION D: MEASUREMENT, TIME & MONEY (15%)

### 1. Measurement

- Length, Weight, Capacity
- Unit conversions (basic)
- Perimeter and Area (introductory)

### 2. Time

- Reading clock (hours, minutes)
- Duration of time
- Calendar-based problems

### 3. Money

- Addition, subtraction, multiplication
  - Real-life application problems
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## ◆ SECTION E: GEOMETRY & DATA HANDLING (10%)

### 1. Geometry

- Lines (parallel, intersecting)
- Angles (basic understanding)
- 2D shapes properties

## 2. Data Handling

- Bar graphs
- Interpretation and comparison

## SECTION F: SMART LOGIC & AI AWARENESS (10%)

*(No special study required)*

### 1. Pattern Recognition

- Number and figure-based patterns

### 2. Logical & Analytical Thinking

- Multi-step reasoning
- Problem-solving sequences

### 3. Real-Life Application Thinking

- Identifying smart systems in daily life
- Understanding step-based problem solving (algorithmic thinking)

## SECTION G: VISUAL REASONING & HOTS (5%)

- Analogy (number & figure-based)
- Series completion
- Coding-decoding (basic patterns)
- Puzzle-based questions

## Weightage Structure

Section	Area	Weightage
A	Number System & Operations	30%
B	Multiplication & Division	20%
C	Fractions & Decimals	10%
D	Measurement, Time & Money	15%

Section	Area	Weightage
E	Geometry & Data Handling	10%
F	Smart Logic & AI Awareness	10%
G	Visual Reasoning & HOTS	5%

Total = 100%

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#### EXAM PATTERN

- Mode: Online / Offline (MCQ Based)
- Total Questions: 45
- Total Marks: 45
- Duration: 45 Minutes

#### Question Distribution:

- Core NCERT Maths: 35 Questions
  - Smart Logic & AI: 5 Questions
  - Visual Reasoning & HOTS: 5 Questions
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#### Important Note

The syllabus is based on NCERT Class 4 Mathematics with an increased focus on application-based and higher-order thinking questions. The Smart Logic & AI Awareness section is designed to enhance analytical and problem-solving skills without requiring additional preparation.