

## THEME 1 : NUMBERS

### 1. Numbers up to 999999

- Numbers beyond 9999 • Indian Place-Value Chart • Writing Large Numbers in Figures
- Face-value • Place-value • Expanded Form • Comparison of Numbers
- Ascending and Descending Order • Successor and Predecessor of a Number
- Forming the Greatest and the Smallest Numbers

1-19

### 2. Roman Numerals

--- 20-24

### 3. Fractional Numbers

--- 25-53

- One-half • One-fourth or a Quarter • One-third • Fractional Parts
- Numerator and Denominator of a Fraction • Parts of a Collection
- Equivalent Fractions • An Important Property of Equivalent Fractions
- Fractions in Lowest Terms • Comparison of Fractions
- Addition and Subtraction of Fractions with the same (like) Denominator
- Types of Fractions • Proper and Improper Fractions
- Mixed Number (or Mixed Fraction)
- Conversion of a Mixed Fraction into an Improper Fraction
- Conversion of an Improper Fraction into a Mixed Fraction
- Check Your Pace (Based on Chapters 1, 2, 3)

$$500 \div 5$$

54

## THEME 2 : NUMBER OPERATIONS

### 4. Addition

--- 55-67

- Addition without Carrying (or without Regrouping)
- Addition with Carrying (or with Regrouping) • Properties of Addition
- Word Problems

### 5. Subtraction

--- 68-78

- Subtraction without Borrowing (or without Regrouping)
- Subtraction with Borrowing (or with Regrouping) • Properties of Subtraction
- Addition and Subtraction Together • Word Problems

### 6. Multiplication

--- 79-9

- Multiplication Tables
- Multiplication of a 3-digit and a 4-digit Number by a 1-digit Number
- Multiplication by 2-digit Number • Multiplication by a 3-digit Number
- Properties of Multiplication • Multiplication by Tens, Hundreds and Thousands
- Word Problems • Quick Multiplication • Rounding Numbers
- Estimation of Sum/Difference/Product
- Check Your Pace (Based on Chapters 4, 5, 6)

### 7. Division

--- 100-

- Terms Associated with Division
- Dividing a 2-digit, a 3-digit and a 4-digit Number by a 1-digit Number
- Division by 10 and 100 • Properties of Division • Word Problems

### THEME 3 :

#### **Multiples and Factors**

- Multiples • Properties of Multiples
- Prime Numbers • Composite Numbers
- Tests for Divisibility • Prime Factorization
- HCF by Long Division Method
- Lowest Common Multiples (LCM)
- Factors • To Find Prime Numbers between 1 and 100
- Common Factors • Highest Common Factor (HCF)
- Properties of HCF • Common Multiples
- LCM by Long Division Method • Properties of LCM

### THEME 4 : GEOMETRY

#### **9. Geometrical Shapes**

- Tangram • Tessellation • Open and Closed Curves
- Simple closed curves • Polygons • Rectangle • Square
- Basic Geometrical Concepts • Perpendicular Lines
- Parallel Lines • Drawing Parallel Lines with Set Squares
- Circle • Drawing a Circle • Terms Related to a Circle
- How to Find the Centre of a Given Circle
- Relationship between Radius and Diameter of a Circle
- Symmetry • Reflection • Views of an Object
- Check Your Pace (Based on Chapters 7, 8, 9)

#### **10. Perimeter and Area**

- Perimeter • To Find the Perimeter of a Triangle, a Rectangle and a Square
- Area • Units of Area • Area of a Rectangle and a Square

### THEME 5 : MEASUREMENT

#### **11. Measurement of Length, Mass and Capacity**

- Measurement of Length • Addition and Subtraction in Length
- Measurement of Mass • Addition and Subtraction in Mass
- Measurement of Capacity • Addition and Subtraction in Capacity

#### **12. Time**

- Use of a.m. or p.m. • Conversion of Time • Time Duration • Interpreting a Calendar.
- Check Your Pace (Based on Chapters 10, 11, 12)

### THEME 6 : DATA HANDLING

#### **13. Data Handling**

- Drawing Pictographs • Bar Graphs

### THEME 7 : PATTERNS

#### **14. Patterns**

- Check Your Pace (Based on Chapters 13, 14)
- Model Test Paper-1 (For Half Yearly Examination)
- Model Test Paper-2 (For Annual Examination)
- Answers



114

138

168

180

196

212

221