

(CLASS-5, SYLLABUS)

1-NATURAL NUMBERS & WHOLE NUMBERS

- 1.1 Counting
- 1.2 Ordering Numerals
- 1.3 Place Value
- 1.4 Rounding Off
- 1.5 Addition, Subtraction, Multiplication and Division of Natural Numbers & Whole Numbers
- 1.6 Order of Operations (BODMAS)
- 1.7 Word Problems

2-L.C.M. and H.C.F.

- 2.1 Common Multiples and Common Factors
- 2.2 Prime Numbers and Composite Numbers
- 2.3 Prime Factorization
- 2.4 The L.C.M. and the H.C.F.

3-FRACTIONS & DECIMALS

- 3.1 Equivalent Fractions
- 3.2 Lowest Form of a Fraction
- 3.3 Reducible and Irreducible Common Fractions
- 3.4 Reducing a Fraction to its lowest Form
- 3.5 Reducing a Fraction into its lowest Form by the use of Highest Common Factor (H.C.F.)
- 3.6 Decimals
- 3.7 Converting a Decimal Fraction into a Fraction and then to its Lowest Form

3.8 Converting a Fraction into a Decimal Fraction

3.9 Rounding Off Decimals

3.10 Addition, Subtraction, Multiplication and Division of Decimals & Fractions

3.11 Word Problems

3.12 Brackets

4-UNITARY METHOD

4.1 The price of more things if the price of one thing is given

4.2 The price of unit thing when the price of more things is given

4.3 Problems Involving Unitary Method

5-PERCENTAGES

5.1 Percentages

5.2 Expressing Fractions and Decimals as Percentages

5.3 Percentage of a Quantity

6-AVERAGE/ INFORMATION HANDLING

6.1 Concept of Average

6.2 Average when Data is given in a Table

7-GEOMETRY

7.1 Measuring and Converting Lengths

7.2 Angle Properties of Lines and Triangles

7.3 Types of Triangles

7.4 Geometrical Shapes

7.5 Perimeter & Area of a Square and of a Rectangle

8-APTITUDE

(CLASS-6, SYLLABUS)

1-NATURAL NUMBERS & WHOLE NUMBERS

- 1.1 Place Value
- 1.2 Rounding Off
- 1.3 Addition, Subtraction, Multiplication and Division of Natural Numbers & Whole Numbers
- 1.4 Order of Operations (BODMAS)
- 1.5 Word Problems

2- FRACTIONS (Rational Numbers) & DECIMALS

- 2.1 Revision of Fractions
- 2.2 Reduction of a Fraction to its Lowest Form
- 2.3 Equivalent Fractions
- 2.4 Distributive Property of Multiplication over Addition and Subtraction in Fractions
- 2.5 Use of Brackets in Fractions & Decimals
- 2.6 Converting a Fraction into a Decimal
- 2.7 Rounding Off Decimals
- 2.8 Addition, Subtraction, Multiplication and Division of Decimals & Fractions
- 2.9 Word Problems involving Fractions & Decimals

3-FACTORS AND MULTIPLES

- 3.1 Common Multiples and Common Factors
- 3.2 Prime Numbers and Composite Numbers
- 3.3 Prime Factorization
- 3.4 The L.C.M. and the H.C.F.

- 3.5 Word Problems involving the L.C.M. and the H.C.F.

4-INTEGERS

- 4.1 Directed Numbers and Their Representation on Number Line
- 4.2 Addition, Subtraction, Multiplication and Division of Integers

5-PERCENTAGE, RATE, RATIO AND PROPORTION

- 5.1 Concept of Percentage
- 5.2 Relations among Percentage, Common Fraction & Decimals
- 5.3 Problems Related to Percentage
- 5.4 Concept of Rate, Ratio and Proportion

6-AVERAGE/ INFORMATION HANDLING

- 6.1 Concept of Average
- 6.2 Average when Data is given in a Table
- 6.3 Word Problems

7-GEOMETRY

- 7.1 Adjacent Angles
- 7.2 Complementary Angles
- 7.3 Supplementary Angles
- 7.4 Sum of Angles at a Point
- 7.5 Angle Properties of Lines and Triangles
- 7.6 Measuring and Converting Lengths
- 7.7 Perimeter & Area of a Triangle, a Square and of a Rectangle

8-TIME

- 8.1 Conversion of Units
- 8.2 Problems Involving Time

9-APTITUDE

(CLASS-7, SYLLABUS)

1- NATURAL NUMBERS, WHOLE NUMBERS, INTEGERS & RATIONAL NUMBERS

- 1.1 Order of Operations (BODMAS)
- 1.2 Addition, Subtraction, Multiplication and Division of Natural Numbers, Whole Numbers, Integers & Rational Numbers
- 1.3 Distributive Property of Multiplication over Addition or Subtraction on Natural Numbers, Whole Numbers, Integers & Rational Numbers
- 1.4 Word Problems on Natural Numbers, Whole Numbers, Integers & Rational Numbers

2- SQUARE ROOTS

- 2.1 Concept of Square Root of Positive Numbers
- 2.2 Finding Square Root (Just Perfect Squares)

3-PERCENTAGE

- 3.1 Concepts of Cost Price, Sale Price and Profit and Loss
- 3.2 Finding Profit or Loss Percent When Purchase Price and Sale Price is given
- 3.3 Finding Sale Price When Cost Price and Profit or Loss Percent is given

4- RATIO AND PROPORTION

- 4.1 Ratio and Proportion
- 4.2 Direct and Inverse Proportion
- 4.3 Word Problems

5-ALGEBRA

- 5.1 Algebraic Expressions and Sentences
- 5.2 Co-efficient, Base and Exponent
- 5.3 Terms of Algebraic Expressions
- 5.4 Laws of Exponents
- 5.5 Addition, Subtraction, Multiplication and Division of Algebraic Expressions
- 5.6 Value of an Algebraic Expression
- 5.7 Solution of a Linear Equation

6-GEOMETRY

- 6.1 Angle Properties of Lines, Triangles and Polygons
- 6.2 Circumference & Area of a Circle
- 6.3 Perimeter & Area of a Triangle, a Square, a Rectangle and a Parallelogram

7-INFORMATION HANDLING

- 7.1 Concept of Average
- 7.2 Average when Data is given in a Table
- 7.3 Word Problems

8-APTITUDE

(CLASS-8, SYLLABUS)

1- NATURAL NUMBERS, WHOLE NUMBERS, INTEGERS & RATIONAL NUMBERS

Contains all the chapters in Class-7 syllabus

2- SQUARE ROOTS

Contains all the chapters in Class-7 syllabus and Addition, Subtraction, Multiplication and Division of Square Roots.

3-PERCENTAGE

Contains all the chapters in Class-7 syllabus

4- RATIO AND PROPORTION

Contains all the chapters in Class-7 syllabus

5-ALGEBRA

5.1 Simplifying an Algebraic Expression Involving Brackets

5.2 Evaluating Algebraic Expressions

5.3 Addition, Subtraction, Multiplication and Division of Algebraic Expressions

5.4 Expansion and Factorization of Algebraic Expressions

5.5 Algebraic Manipulation and Formulae

5.6 Word Problems

6-GEOMETRY

6. 1 Angle Properties of Lines, Polygons and Regular Polygons

6.2 Angle and Side Properties of Triangles

6.3 Circumference & Area of a Circle

6.4 Perimeter & Area of a Triangle, a Square, a Rectangle, a Trapezium, a Rhombus and a Parallelogram

6.5 Volume and Surface Area of Solids

7-INFORMATION HANDLING

7.1 Concept of Average

7.2 Average when Data is given in a Table

7.3 Word Problems

7.4 Pictograms, Pie Chart, Bar and Line Graphs

7.5 Interpreting Graphs

8-SETS

8.1 Concept of a Set

8.2 Elements of a Set

8.3 Null Set, Finite and Infinite Sets

8.4 Union & Intersection of two Sets

8.5 Finding Subsets of a Set

8.6 Equality of Two Sets

8.7 Universal Set

8.8 Difference of two Sets

8.9 Compliment of a Set

9-APTITUDE