

Math Grade 6

Module 1. Whole Numbers, Operations, and Roman Numerals

- 1.1 Digits and Place Values of Whole Numbers
- 1.2 Place value and Expanded Form
- 1.3 Order Relation
- 1.4 Rounding Whole Numbers
- 1.5 Addition of Whole Numbers
- 1.6 Subtraction of Whole Numbers
- 1.7 Multiplication of Whole Numbers
- 1.8 Division of Whole Numbers
- 1.9 Multiplying or Dividing whole numbers by powers of 10
- 1.10 Word Problems
- 1.11 Expressions Involving Exponents
- 1.12 Simplify the Numerical Expressions
- 1.13 Average of a Group of a Whole Numbers
- 1.14 Roman Numerals

Module 2. Factors, Multiples, Prime Factorizations, GCF, and LCM

- 2.1 Factors
- 2.2 Multiples
- 2.3 Rules of Divisibility (By 2, 3, 4, 5, 6, 8, 9, 10, 11)
- 2.4 Prime and Composite Numbers
- 2.5 Prime Factorization, GCD(or HCF) and LCM

Module 3. Fractions

- 3.1 Exploring Fractions
- 3.2 Types of Fractions and Conversion
- 3.3 Reducing Fractions
- 3.4 Multiplication of Fractions
- 3.5 Division of Fractions
- 3.6 Building Equivalent Fractions
- 3.7 Finding Missing Part of an Equivalent Fraction
- 3.8 Comparing and Arranging Like Fraction
- 3.9 Comparing and Arranging Unlike Fractions
- 3.10 Addition of Fractions

- 3.11 Subtraction of Fractions
- 3.12 Addition and Subtraction of Mixed Numbers
- 3.13 Simplifying Expressions Involving Fractions

Module 4. Decimals and Square Roots

- 4.1 Digit and Place Value of Decimals
- 4.2 Conversion (Fraction-decimal), Short Form and Expanded Notation
- 4.3 Conversion (Unlike to Like), Comparing and Arranging Decimals
- 4.4 Rounding Decimals
- 4.5 Addition of Decimals
- 4.6 Subtraction of Decimals
- 4.7 Multiplication of Decimals
- 4.8 Division of Decimals by Whole Numbers
- 4.9 Dividing Decimals by Decimal
- 4.10 Simplifying Square Roots

Module 5. Percents and Applications of Percents

- 5.1 Introduction to Percentage
- 5.2 Converting Percentage to Fractions and Decimals
- 5.3 Converting Fractions and Decimals to Percentage
- 5.4 Equivalent Fractions, Decimals and Percents
- 5.5 Applications of Percents

Module 6. Ratio, Unit Rate and Proportion

- 6.1 Ratio and Unit Rate
- 6.2 Solving Proportions

Module 7. Sets and Operations on Sets

- 7.1 Sets and Set Notations
- 7.2 Types of Sets
- 7.3 Subsets
- 7.4 Operations on Sets
- 7.5 Venn Diagrams

Module 8. Algebra: Variables, Expressions, Equations, Exponents

- 8.1 Understanding Variables
- 8.2 Translate Phrases or Statements into Expressions or Equations
- 8.3 Evaluating Algebraic Expressions
- 8.4 Simplifying Linear Equations

8.5 Exponents

8.6 Laws of Exponents

Module 9. Geometry: Basics, Polygons, and Circle

9.1 Plane, Point, Line segment, Line, Ray

9.2 Measuring and Classifying Angles

9.3 Pairs and Related Angles

9.4 Parallel lines and Special Angle Pairs

9.5 Curves and Polygons

9.6 Quadrilaterals

9.7 Quadrilaterals: Parallelogram

9.8 Introduction: Triangles

9.9 Properties of Triangles

9.10 Circles

Module 10. Exploring Shapes

10.1 Understanding Symmetry

10.2 Lines of Symmetry

10.3 Turning Shapes

10.4 Patterns

Module 11. Measurements: Basic Operations, Conversions, Time and Temperatures

11.1 Addition and Subtraction of Measures

11.2 Multiplying and Dividing Measurements

11.3 Measurement of Length

11.4 Measurement of Mass

11.5 Measurement of Capacity

11.6 Reading Time

11.7 Use of a.m. and p.m.

11.8 24 Hour Clock

11.9 Calendar

11.10 Conversion from one Unit to Another

11.11 Addition and Subtraction of Time

11.12 Finding the Starting time or Finishing time

11.13 Finding the Starting Date or Finishing Date

11.14 Temperature

Module 12. Perimeter and Area of Polygons and Circle

12.1 Perimeter and Area of Rectangles and Squares

12.2 Area of Triangles, Parallelogram and Trapezoids

12.3 Circumference and Area of Circle

Module 13. Solid Shapes: Shapes and Volume of Cuboid and Cube

13.1 Shapes

13.2 Volume of Solid Shapes

13.3 Volume of Cuboids and Cubes

13.4 Volume of Other Shapes

Module 14. Statistics

14.1 Reading and Interpreting Data

14.2 Pictographs

14.3 Bar Graphs

14.4 Tally Marks

14.5 Line Graph

14.6 Pie Chart

14.7 Mean, median, Mode and Range

14.8 Probability