

Comprehensive Math Curriculum

Course Contents (5th Grade Math)

COURSE NAME: 5TH GRADE MATH (NEW)

1. Basic Numbers

- 1.1 Place Values and Expanded Form
- 1.2 Whole Numbers
- 1.3 Decimal Numbers
- 1.4 Prime Numbers
- 1.5 Composite Numbers
- 1.6 The Number Line
- 1.7 Positive and Negative Integers
- 1.8 Real Numbers
- 1.9 Absolute Value
- 1.10 Rounding and Estimating

2. Basic Number Operations Review

2.1 Addition

- 2.1.1 Addition with 3-Digit Numbers
- 2.1.2 Addition with 4-Digit Numbers
- 2.1.3 Addition with 5-Digit Numbers
- 2.1.4 Addition with 6-Digit Numbers
- 2.1.5 Addition with 7-Digit Numbers
- 2.1.6 Addition with Equations
- 2.1.7 Adding Three Sets of Numbers
- 2.1.8 Addition with Decimals
- 2.1.9 Addition of Whole Numbers and Decimals
- 2.1.10 Addition with Negative Numbers

2.2 Subtraction

- 2.2.1 Subtraction with 3-Digit Numbers
- 2.2.2 Subtraction with 4-Digit Numbers
- 2.2.3 Subtraction with 5-Digit Numbers
- 2.2.4 Subtraction with 6-Digit Numbers
- 2.2.5 Subtraction with Equations
- 2.2.6 Subtraction with Decimals
- 2.2.7 Subtraction Involving Whole Numbers and Decimals
- 2.2.8 Subtraction with Negative Numbers

2.3 Multiplication

- 2.3.1 Multiplying a 2-Digit Number by a 1-Digit Number
- 2.3.2 Multiplying a 3-Digit Number by a 1-Digit Number
- 2.3.3 Multiplying a 4-Digit Number by a 1-Digit Number
- 2.3.4 Multiplying a 2-Digit Number by a 2-Digit Number
- 2.3.5 Multiplying a 3-Digit Number by a 2-Digit Number
- 2.3.6 Multiplying a 4-Digit Number by a 2-Digit Number
- 2.3.7 Multiplying Whole Numbers and Decimal Numbers
- 2.3.8 Multiplying Two Decimal Numbers
- 2.3.9 Multiplication with Equations

2.4 Division

- 2.4.1 Understanding Division and Division Terms
- 2.4.2 Division without a Remainder
- 2.4.3 Division with a Remainder
- 2.4.4 Dividing a 3-Digit Number by a 2-Digit Number
- 2.4.5 Dividing a 4-Digit Number by a 2-Digit Number
- 2.4.6 Dividing a 4-Digit Number by a 3-Digit Number
- 2.4.7 Dividing a 5-Digit Number by a 2-Digit Number
- 2.4.8 Dividing a 5-Digit Number by a 3-Digit Number
- 2.4.9 Division with Decimal Numbers
- 2.4.10 Dividing Two Decimal Numbers

3. Fractions

- 3.1 Understanding Fractions
- 3.2 Equivalent Fractions
- 3.3 The Greatest Common Factor
- 3.4 The Least Common Multiple

9. Geometry - Angles

- 9.1 Angles
- 9.2 Measuring Angles
- 9.3 Types of Angles

10. Geometry - Basic Shapes and Solids

- 10.1 Triangles
- 10.2 Quadrilaterals
- 10.3 Rectangles and Rhombus
- 10.4 Polygons
- 10.5 Circles
- 10.6 Cubes
- 10.7 Pyramids
- 10.8 Cylinders
- 10.9 Rectangular Prisms

11. Geometry - Working with Shapes and Solids

- 11.1 Perimeter and Area of Triangles
- 11.2 Perimeter and Area of Squares and Rectangles
- 11.3 Perimeter and Area of Parallelograms and Trapezoids
- 11.4 Circumference and Area of Circles
- 11.5 Surface Area and Volume of Cubes
- 11.6 Surface Area and Volume of Rectangular Prisms

12. Algebra - Variables, Expressions and Equations

- 12.1 Variables
- 12.2 Expressions and Equations
- 12.3 Writing Expressions and Equations
- 12.4 Word Problems

13. Algebraic Operations

- 13.1 Like and Unlike Terms
- 13.2 The Addition Operation with Variables
- 13.3 The Subtraction Operation with Variables
- 13.4 The Multiplication Operation with Variables
- 13.5 The Division Operation with Variables
- 13.6 Canceling Variables
- 13.7 Evaluating Expressions with Variables

14. Algebra - The Coordinate Plane and First Quadrant

- 14.1 Introduction to the Coordinate Plane
- 14.2 Working with First Quadrant
- 14.3 Connecting Points in the First Quadrant

15. Graphs - Collecting and Displaying Data

- 15.1 Line Graphs
- 15.2 Bar Graphs
- 15.3 Double Bar Graphs
- 15.4 Circle (Pie) Graphs
- 15.5 Surveys and Experiments

16. Probability

- 16.1 Introduction to Probability
- 16.2 Making Predictions with Probability

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Course Contents (5th Grade Conti...)

3.5 The Least Common Denominator

3.6 Mixed Fractions

3.7 Converting Mixed Fractions to Improper Fractions

3.8 Converting Improper Fractions to Mixed Fractions

4. Operations with Fractions

4.1 Reducing Fractions

4.2 Adding Fractions

4.3 Adding Fractions and Whole Numbers

4.4 Adding Mixed Fractions

4.5 Multiplying Fractions

4.6 Multiplying Fractions and Whole Numbers

4.7 Subtracting Fractions

4.8 Subtracting Fractions and Whole Numbers

4.9 Subtracting Mixed Fractions

4.10 Dividing Fractions

4.11 Dividing Fractions and Whole Numbers

4.12 Converting Fractions into Decimal Numbers

4.13 Converting Decimal Numbers into Fractions

5. Number Comparison

5.1 The Number Line

5.2 Comparing Whole Numbers

5.3 Ordering Whole Numbers

5.4 Comparing Decimal Numbers

5.5 Ordering Decimal Numbers

5.6 Comparing Fractions

5.7 Ordering Fractions

5.8 Comparing Mixed Fractions

5.9 Comparing Whole Numbers and Fractions

6. Percentages

6.1 Introduction to Percentages

6.2 Converting a Percent into a Fraction

6.3 Converting a Percent into a Decimal Number

6.4 Converting a Decimal Number into a Percent

6.5 Converting a Fraction into a Percent

6.6 Finding the Percentage of a Number

6.7 Determining the Percentage When Given Two Numbers

7. Math in Everyday Life

7.1 Salary Calculation

7.2 Number Games

7.3 Money Games

7.4 Family Budgeting

7.5 Age Comparisons

7.6 Calculating Commission

7.7 Calculating Sale Price

7.8 Interest Rates

8. Measurements and Conversions

8.1 Time

8.2 Systems of Measurement

8.3 Mass and Weight

8.4 Length

8.5 Temperature

8.6 Volume

8.7 Rate, Time and Distance Traveled