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Curriculum Outline GRADE 5

A Guide for Grade 5 Math Curriculum

GRADE 5

years

TOPICS

GEOMETRY

➢ Classify Quadrilateral Shapes
➢ Identify Simple and Complex Solid Shapes
➢ Types of Triangles
➢ Regular and Irregular Polygons
➢ Number of Sides in Polygons
➢ Volume of Rectangular Prisms Made of Unit Cubes
➢ Open and Closed Shapes
➢ Which Shape Is Described?
➢ Area of Squares and Rectangles
➢ Volume of Cubes and Rectangular Prisms

GRAPHING

➢ Interpret Line Plots with up to 5 Data Points
➢ Create Line Plots
➢ Graph Points on a Coordinate Plane
➢ Coordinate Graphs with Decimals and Negative Numbers
➢ Coordinate Graphs Review with Whole Numbers
➢ Convert Graphs to Input/Output Tables
➢ Graph Linear Functions
➢ Coordinate Graphs as Maps
➢ Relative Coordinates

MEASUREMENT

➢ Compare and Convert Customary Units
➢ Compare and Convert Metric Units
➢ Compare Customary Units by Multiplying
➢ Convert Customary Units Involving Fractions
➢ Convert Mixed Customary Units
➢ Add and Subtract Mixed Customary Units
➢ Compare Metric Units by Multiplying
➢ Convert Metric Units Involving Fractions
➢ Convert Mixed Metric Units
➢ Add and Subtract Mixed Metric Units

ADDITION

➢ Convert Numbers with Hundreds, Thousands, Millions
➢ Add Multiple Fractions with Unlike Denominators
➢ Add Mixed Numbers with Unlike Denominators
➢ Add Multiple Fractions

TOPICS

NUMBER PROPERTIES

- Convert Numbers with Hundreds, Thousands, Millions
- Identify Place Values in Decimal Numbers
- Convert Scientific Notation
- Choose Equivalent Decimals
- Inequalities with Decimal Multiplication
- Choose Properties of Multiplication
- Inequalities with Decimal Addition and Subtraction
- Choose the Equivalent Fraction Up to Twentieths
- Inequalities with Addition and Subtraction of Mixed Numbers

DIVISION

- Increasing Division Patterns
- Division with Decimals
- Increasing Decimal Division Patterns
- Divide Two Numbers with Operands Up to 12
- Division with Dividends Up to 60
- Division with Remainder with Dividend Up to 10,000
- Division with Divisors Up to 10
- Division with Remainder with Dividend Up to 1000
- Division with Divisors Up to 100
- Division with Divisors Up to 100 II
- Choose Numbers with a Particular Quotient
- Division with Decimal Quotients
- Division with Decimal Quotients and Rounding
- Division with Decimal Quotients
- Divide Fractions by Whole Numbers
- Divide Unit Fractions by Whole Numbers Up to 201
- Divide Whole Numbers by Unit Fractions
- Divide Unit Fractions by Whole Numbers

NUMBER PATTERNS

- Increasing Multiplication Patterns with Numbers Up to
- 10,000
- Increasing Division Patterns
- Increasing Decimal Division Patterns

COMPARISON

- Compare Decimal Numbers Up to 4 Places
- Put Decimal Numbers in Order Up to 4 Places

TOPICS

DECIMALS

- ➢ Identify Place Values in Decimal Numbers
- ➢ Multiply Decimals Up to 20 Times Factors of 10
- ➢ Increasing Decimal Division Patterns
- ➢ Understanding Decimals Expressed in Words
- ➢ Choose Equivalent Decimals
- ➢ Compare Decimal Numbers Up to 4 Places
- ➢ Inequalities with Decimal Multiplication
- ➢ Add and Subtract Decimal Numbers Up to 2 Places
- ➢ Add and Subtract Decimals Up to 10
- ➢ Choose Decimals with a Particular Sum or Difference
- ➢ Complete the Addition or Subtraction Sentence
- ➢ Inequalities with Decimal Addition and Subtraction
- ➢ Multiply Decimals with Numbers Up to 10
- ➢ Multiply Decimals with Numbers up to 1000
- ➢ Multiply Decimals and Whole Numbers
- ➢ Multiply Decimals with 3 Numbers Up to 10
- ➢ Multiply Decimals with Numbers Up to 10 11
- ➢ Division with Decimal Quotients
- ➢ Mixed Decimal Equations
- ➢ Mixed Decimal Equations
- ➢ Put Decimal Numbers in Order Up to 4 Places
- ➢ Decimals with Models
- ➢ Multiply Decimals Using Grids

MULTIPLICATION

- ➢ Increasing Multiplication Patterns with Numbers Up to 10,000
- ➢ Multiply Numbers Up to 1000 Ending in Zeros
- ➢ Multiplication Up to 1000
- ➢ Multiply Decimals Up to 20 Times Factors of 10
- ➢ Inequalities with Decimal Multiplication
- ➢ Multiply Two Numbers Up to 100
- ➢ Multiply Two Numbers Up to 100 and Up to 1000
- ➢ Multiply Three or More Numbers Up to 1000
- ➢ Multiply 3, 4 Numbers Up to 100
- ➢ Multiply Three Digit Numbers Up to 1000
- ➢ Multiply Three Numbers Up to 1000
- ➢ Multiply Three or More Numbers Up to 100
- ➢ Choose Properties of Multiplication
- ➢ Multiply Decimals with Numbers Up to 10
- ➢ Multiply Decimals with Numbers Up to 1000
- ➢ Multiply Decimals with 3 Numbers Up to 10
- ➢ Multiply Decimals with Numbers Up to 10 11
- ➢ Multiply Fractions by Whole Numbers
- ➢ Multiply Fractions by Whole Numbers with Tables
- ➢ Multiply Fractions
- ➢ Multiply Fractions
- ➢ Multiply a Mixed Number by a Whole Number
- ➢ Multiply a Mixed Number by a Fraction
- ➢ Multiply Two Mixed Numbers
- ➢ Multiplication with Mixed Numbers

TOPICS

ESTIMATION

➢ Round Decimals
➢ Estimate Sums and Differences of Decimals
➢ Division with Decimal Quotients and Rounding

SUBTRACTION

➢ Subtract Mixed Numbers with Unlike Denominators

MONEY

➢ Add and Subtract Money: Up to $10,000
➢ Multiply Money Amounts
➢ Divide Money Amounts
➢ Consumer Math: Unit Prices
➢ Price Lists

ALGEBRA

➢ Addition and Subtraction Equations with Mixed Numbers
➢ Simplify Expressions
➢ Write Variable Expressions
➢ Function Tables
➢ Write Variable Equations to Represent

TOPICS

MIXED EQUATIONS

➢ Complete the Addition or Subtraction Sentence
➢ Inequalities with Decimal Addition and Subtraction
➢ Mixed Decimal Equations
➢ Mixed Decimal Equations
➢ Addition and Subtraction Equations with Fractions
➢ Addition and Subtraction Equations with Mixed Numbers
➢ Inequalities with Addition and Subtraction of Mixed Numbers
➢ Add, Subtract Fractions with Like Denominators
➢ Add and Subtract Fractions with Unlike Denominators
➢ Add and Subtract Mixed Numbers
➢ Mixed Fraction Equations with Mixed Numbers Up to 10
➢ Mixed Fraction Equations Up to 10
➢ Simplify Expressions

FRACTIONS

➢ Choose the Equivalent Fraction Up to Twentieths
➢ Convert Between Improper Fractions and Mixed Numbers
➢ Add Fractions with Unlike Denominators
➢ Subtract Fractions with Unlike Denominators
➢ Add Multiple Fractions with Unlike Denominators
➢ Addition and Subtraction Equations with Fractions
➢ Add Mixed Numbers with Unlike Denominators
➢ Subtract Mixed Numbers with Unlike Denominators
➢ Addition and Subtraction Equations with Mixed Numbers
➢ Inequalities with Addition and Subtraction of Mixed Numbers
➢ Add, Subtract Fractions with Like Denominators
➢ Add and Subtract Fractions with Unlike Denominators
➢ Add Multiple Fractions
➢ Add and Subtract Mixed Numbers
➢ Divide Fractions by Whole Numbers
➢ Multiply Fractions by Whole Numbers
➢ Multiply Fractions by Whole Numbers with Tables
➢ Multiply Fractions
➢ Multiply Fractions
➢ Multiply a Mixed Number by a Whole Number
➢ Multiply a Mixed Number by a Fraction
➢ Multiply Two Mixed Numbers
➢ Multiplication with Mixed Numbers
➢ Mixed Fraction Equations with Mixed Numbers Up to 10
➢ Mixed Fraction Equations Up to 10
➢ Divide Unit Fractions by Whole Numbers up to 201
➢ Divide Whole Numbers by Unit Fractions
➢ Divide Unit Fractions by Whole Numbers
➢ Multiply Fractions with Models
➢ Fractions Review