

Parent's Guide to **Fifth Grade** Math

Number & Operations

Division

- ★ Divides multi-digit numbers
- ★ Recognizes quotients can be represented in a number of ways
- ★ Interprets quotients
- ★ Estimates solutions
- ★ Solves real-world problems

Fractions & Decimals

- ★ Reads and writes decimals
- ★ Uses place value to describe decimals from millionths to millions
- ★ Finds 0.1, 0.01, 0.001 more than a number or 0.1, 0.01, 0.001 less than a number
- ★ Orders and compares fractions, decimals, mixed numbers, improper fractions
- ★ Locates fractions and decimals on a number line
- ★ Recognizes and generates equivalent decimals, fractions, mixed numbers, and improper fractions
- ★ Rounds numbers to the nearest 0.1, 0.01, and 0.001

Add and Subtract

- ★ Adds and subtracts fractions and decimals
- ★ Models addition and subtraction of fractions and decimals
- ★ Estimates sums and differences
- ★ Solves real-world problems

Data Analysis

- ★ Calculates mean, median, range
- ★ Uses spreadsheet
- ★ Creates and analyzes double-bar graphs and line graphs

Algebra

Patterns

- ★ Creates and describes patterns of change
- ★ Solves problems with patterns
- ★ Uses tables, spreadsheets, graphs
- ★ Graphs ordered pairs on coordinate system

Properties of Arithmetic

- ★ Applies commutative, associative and distributive properties
- ★ Applies order of operations
- ★ Generates equivalent numerical expressions
- ★ Solves problems

Equations and Inequalities

- ★ Represents real-world situations
- ★ Analyzes and solves equations and evaluates expressions

Geometry & Measurement

3D Figures

- ★ Describes and classifies cubes, prisms, pyramids
- ★ Uses attributes like edges, faces, vertices
- ★ Recognizes and draws nets

Area

- ★ Develops and uses formulas for area of triangles and parallelograms
- ★ Calculates volume and surface area
- ★ Understands volume
- ★ Develops and uses formulas for volume of rectangular prisms