

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

Number & Operations

Multiplication & Division

- ★ Demonstrates fluency with multiplication and division facts
- ★ Understands place value when multiplying by 10, 100, 1,000
- ★ Multiplies multi-digit numbers
- ★ Estimates products and quotients
- ★ Solves multi-step problems
- ★ Uses a variety of strategies to divide by 1- and 2-digit numbers

Fractions

- ★ Uses models to represent equivalent fractions
- ★ Locates fractions on number line
- ★ Orders and compares whole numbers, fractions, mixed numbers, improper fractions
- ★ Uses models to add and subtract fractions with like denominators
- ★ Reads and writes decimals
- ★ Uses place value to describe decimals (tenths, hundredths, thousandths)
- ★ Compares and orders decimals
- ★ Knows fraction and decimal equivalents for halves and fourths

Algebra

Patterns with Input-Output

- ★ Creates, describes, and applies input-output rules

Number Sentences

- ★ Interprets number sentences with multiplication, division, and unknowns
- ★ Represents real-world situations using number sentences
- ★ Finds values for unknowns

Geometry & Measurement

Polygons

- ★ Describes, classifies, and sketches triangles and quadrilaterals
- ★ Uses equilateral, right, obtuse, and acute triangles
- ★ Uses squares, rectangles, trapezoids, rhombuses, parallelograms, kites

Angles and Area

- ★ Measures angles with protractor
- ★ Compares size of angles
- ★ Classifies angles as acute, right, obtuse
- ★ Understands how to find area of a rectangle
- ★ Finds the area of figures that can be divided into rectangular shapes

Congruence & Symmetry

- ★ Applies translations (slides)
- ★ Applies reflections (flip)
- ★ Applies rotations (turns)
- ★ Understands lines of symmetry
- ★ Understands congruent figures

Data Analysis

- ★ Collects, displays, interprets data
- ★ Uses tables, bar graphs, timelines, Venn diagrams, spreadsheet tables

