

# 5th Grade Mathematics

## A Guide to Understanding What Your Child Will Know at the End of Fifth Grade

### Number Sense and Algebra

- Multiplication and division
  - Finds common factors and least common multiples
  - Uses algorithms to solve digit by 2-digit multiplication and division problems
  - Solves multiplication and division word problems of various types (equal groups; area, comparison and combinations)
  - Solves word problems with unknown in various positions
- Fractions, decimals, and mixed numbers
  - Finds common denominators
  - Converts decimals to/from fractions
  - Solves word problems involving multiplication and division of fractions
  - Identifies probability in fraction form with picture problems

### Geometry

- Line graphs:
  - Describes rules for numerical and geometric patterns
  - Graphs ordered pairs in coordinate plane (positive numbers only)
  - Constructs and interprets line graphs and their algebraic representations (whole numbers only  $3 \times 2$ ;  $4 \times 2$ ; etc.)
- Geometric shapes:
  - Identifies, sketches, and measures angles and line segments
  - Classifies and analyzes properties of quadrilaterals and triangles
  - Uses formula for area of parallelograms and triangles

### Problem Solving and Reasoning

- Identifies the question asked in word problems
- Uses information given to solve word problems and answer questions
- Determines reasonableness of solutions to word problems
- Selects appropriate strategies to solve problems
- Solves non-routine problems

### Communication

- Conveys answers to questions verbally and in written form as needed
- Describes verbally, pictorially, and/or in writing processes used to solve problems