

4th Grade Mathematics

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

Number Sense and Algebra

- Multiplication and division
 - Quickly recalls multiplication facts to 10 x 10 and related division facts
 - Uses algorithms to solve digit by 2-digit multiplication
 - Solves multiplication and division word problems of various types (equal groups; area, comparison, and combinations)
 - Solves word problems with unknown number in various positions
 - Determines mean, median, and mode of small data sets
- Fractions, decimals, and mixed numbers
 - Reads, writes, compares and orders equivalent fractions
 - Converts decimals to/from fractions
 - Solves word problems involving addition and subtraction of fractions
 - Identifies probability in fraction form with picture problems
 - Graph-ordered pairs of data

Geometry and Measurement

- Uses formulas to compute area and perimeter of rectangles and shapes which can be broken into rectangles
- Solves word problems involving area and perimeter
- Describes and computes elapsed time

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