

Grade 4
Mathematics

These are the expectations for a student by the end of Fourth Grade.

Numbers, Number Systems and Number Relationships

Identifies, reads and writes whole numbers to 6 digits in expanded, standard and word form
Rounds, compares and orders whole numbers to 6 digits, fractions and decimals to the hundredths
Compares amounts of money to $100.00 and rounds to the nearest dollar

Computation and Estimation

Shows basic fact mastery of multiplication and division through the 12 times table
Estimates, adds and subtracts four-digit numbers including money and decimals
Compares, adds, and subtracts fractions with like and unlike denominators
Multiplies three-digit by one- and two- digit numbers
Calculates quotients with and without remainders, using one and two digit divisors
Identifies factors and multiples of numbers up to 50

Measurement and Estimation

Calculates elapsed time to the nearest minute
Measures, using a ruler, to the nearest ¼ of an inch or centimeter
Estimates and measures length, capacity, weight, and temperature using customary and metric units
Determines perimeter, area, and volume of geometric shapes

Mathematical Reasoning and Connections

Utilizes strategies to solve problems and checks the reasonableness of answer
Converts fractions into mixed numbers and decimals

Mathematical Problem Solving and Communication

Uses vocabulary, estimation and problem solving strategies to solve real world tasks and explain thinking

Statistics and Data Analysis

Describes, interprets and/or answers questions based on data shown in tables, charts, bar graphs, pictographs, and line graphs and translate display from one type to another

Probability and Predictions

Determines the probability of an outcome such as a coin toss or number cube

Algebra and Functions

Represents and analyzes patterns
Finds the value of a missing term in a mathematical equation

Geometry

Identifies, classifies and compares the characteristics of two and three dimensional shapes
Identifies and creates lines of symmetry using two dimensional shapes
Identifies and classifies angles as right, acute and obtuse
Plots an ordered pair on the coordinate plane in the first quadrant