

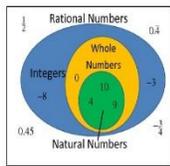
4-6 Mathematics

GRADE 6 MATH

During Grade 6, the focus of instruction is for students to practice applying mathematical ways of thinking to real world issues and challenges and to prepare students to think and reason logically. The focus of instruction changes to an emphasis on building students' understanding of foundational algebraic concepts and working with rational numbers. Other topics include ratio and proportional concepts, percentages, statistics and data analysis, and geometric concepts, including surface area, volume, and working on the coordinate plane. Instruction is aligned to the Pennsylvania Academic Standards for Mathematical Content and Mathematical Practice.

By the end of Grade 6, students will:

2.1 Numbers and Operations-Ratios & Proportional Relationships and The Number System



Understand properties of ratios to solve problems

Solve problems involving fractions

Compute fluently with multi-digit numbers

Apply number theory to find common factors and multiples

Apply understanding of rational numbers

2.2 Algebraic concepts-Expressions & Equations

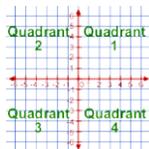


Apply algebraic concepts

Demonstrate understanding of solving one or two step equations and inequalities

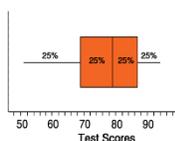
Understand patterns, change, relations and functions

2.3 Geometry



Solve problems involving area, surface area, volume, and the coordinate plane

2.4 Statistics and Probability



Display, analyze and summarize statistical data