

# 6th Grade Math Next Generation Standards

(Basic Concepts)

## Ratio and Proportional Reasoning

6.RP.1	Understand ratios
6.RP.2	Understand unit rate
6.RP.3	Set and solve for real life ratios: percents, unit pricing, constant speed, equivalent tables, measurement conversions

## The Number System

6.NS.1	Divide fractions by fractions
6.NS.2	Divide multi-digit numbers
6.NS.3	Add, subtract, multiply and divide decimals
6.NS.4	Factors and Multiples (GCF/LCM)
6.NS.5	Understand negative and positive numbers in real life
6.NS.6	Negative/positive (rational) numbers on a number line/relationships to each other
6.NS.7	Understand absolute value (inequalities, ordering, distance from zero, real life)
6.NS.8	Graph points in all four quadrants/find coordinates/find distance between points

## Expressions and Equations

6.EE.1	Exponents
6.EE.2	Math language with variables (as a missing number to solve for)/formulas
6.EE.3	Apply properties with variables
6.EE.4	Equivalent expressions using properties with variables
6.EE.5	Use sets of numbers to solve expressions
6.EE.6	Understand variables
6.EE.7	Solve equations with variables
6.EE.8	Read and write inequalities with variables
6.EE.9	Represent and solve for real life problems using variables (with 2 variables)

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## Geometry

6.G.1	Area of polygons and triangles (using triangles and rectangles or decomposition)
6.G.2	Volume of a right rectangular prism ( $V=lwh$ or $V=bh$ )
6.G.3	Draw polygons with given vertices (on a graph)
6.G.4	Nets and surface area
6.G.5*	Area and volume for perfect squares/cubes

## Statistics and Probability

6.SP.1	Understand purpose of statistics/data collection/population
6.SP.2	Understand how to view data distribution
6.SP.3	Understand mean, median, mode, range
6.SP.4	Display data (dot plots, number line, histograms)
6.SP.5	Interpret/report on data (inc. range)
6.SP.6	Understand probability (0=unlikely, $\frac{1}{2}$ =unknown, 1=likely)
6.SP.7*	Collect data and find probability
6.SP.8*	Develop probability models/Draw conclusions