

Common Core State Standards for Mathematics

Domain #	Domain	Cluster	Standard
6.RP.A	Grade 6	Ratios and Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve
6.NS.A	Grade 6	The Number System	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
6.NS.B	Grade 6	The Number System	Compute fluently with multi-digit numbers and find common factors and multiples.
6.NS.C	Grade 6	The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.
6.EE.A	Grade 6	Expressions and Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.
6.EE.B	Grade 6	Expressions and Equations	Reason about and solve one-variable equations and inequalities.
6.EE.C	Grade 6	Expressions and Equations	Represent and analyze quantitative relationships between dependent and independent variables.
6.G.A	Grade 6	Geometry	Solve real-world and mathematical problems involving area, surface area, and volume.
6.SP.A	Grade 6	Statistics and Probability	Develop understanding of statistical variability.
6.SP.B			Summarize and describe distributions.
7.RP.A	Grade 7	Ratios and Proportional Relationships	Analyze proportional relationships and use them to solve real-world and mathematical problems.
7.NS.A	Grade 7	The Number System	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
7.EE.A	Grade 7	Expressions and Equations	Use properties of operations to generate equivalent expressions.
7.EE.B	Grade 7	Expressions and Equations	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
7.G.A	Grade 7	Geometry	Draw, construct, and describe geometrical figures and describe the relationships between them.
7.G.B	Grade 7	Geometry	Solve real-life and mathematical problems involving angle measure, area, surface, surface area, and volume.
8.EE.A	Grade 8	Expressions and Equations	Work with radicals and integer exponents.
8.EE.B	Grade 8	Expressions and Equations	Understand the connections between proportional relationships, lines, and linear equations.
8.F.A	Grade 8	Functions	Define, evaluate, and compare functions.
8.F.B	Grade 8	Functions	Use functions to model relationships between quantities.
8.G.A	Grade 8	Geometry	Understand congruence and similarity using physical models, transparencies, or geometry software.

8.G.B	Grade 8	Geometry	Understand and apply the Pythagorean Theorem.
8.G.C	Grade 8	Geometry	Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.
8.SP.A	Grade 8	Statistics and Probability	Investigate patterns of association in bivariate data.
N-RN.A	Number and Quantity	The Real Number System	Extend the properties of exponents to rational exponents.
N-RN.B	Number and Quantity	The Real Number System	Use properties of rational and irrational numbers.
N-Q.A	Number and Quantity	Quantities*	Reason quantitatively and use units to solve problems.
N-CN.A	Number and Quantity	The Complex Number System	Perform arithmetic operations with complex numbers.
A-CED.A	Algebra	Creating Equations*	Create equations that describe numbers or relationships
A-REI.A	Algebra	Reasoning with Equations and Inequalities	Understand solving equations as a process of reasoning and explain the reasoning
G-CO.A	Geometry	Congruence	Experiment with transformations in the plane
G-CO.B	Geometry	Congruence	Understand congruence in terms of rigid motions
G-CO.C	Geometry	Congruence	Prove geometric theorems
G-CO.D	Geometry	Congruence	Make geometric constructions
G-SRT.A	Geometry	Similarity, Right Triangles, and Trigonometry	Understand similarity in terms of similarity transformations
G-SRT.B	Geometry	Similarity, Right Triangles, and Trigonometry	Prove theorems involving similarity
G-SRT.C	Geometry	Similarity, Right Triangles, and Trigonometry	Define trigonometric ratios and solve problems involving right triangles
G-SRT.D	Geometry	Similarity, Right Triangles, and Trigonometry	Apply trigonometry to general triangles
G-C.A	Geometry	Circles	Understand and apply theorems about circles
G-GMD.A	Geometry	Geometric Measurement and Dimension	Explain volume formulas and use them to solve problems
G-GMD.B	Geometry	Geometric Measurement and Dimension	Visualize relationships between two-dimensional and three-dimensional objects
G-MG.A	Geometry	Modeling with Geometry	Apply geometric concepts in modeling situations
S-ID.A	Statistics and Probability	Interpreting Categorical and Quantitative Data	Summarize, represent, and interpret data on a single count or measurement variable
S-ID.B	Statistics and Probability	Interpreting Categorical and Quantitative Data	Summarize, represent, and interpret data on two categorical and quantitative variables
S-ID.C	Statistics and Probability	Interpreting Categorical and Quantitative Data	Interpret linear models
S-IC.A	Statistics and Probability	Making Inferences and Justifying Conclusions	Understand and evaluate random processes underlying statistical experiments
S-IC.B	Statistics and Probability	Making Inferences and Justifying Conclusions	Make inferences and justify conclusions from sample surveys, experiments, and observational studies
S-CP.A	Statistics and Probability	Conditional Probability and the Rules of Probability	Understand independence and conditional probability and use them to interpret data
S-CP.B	Statistics and Probability	Conditional Probability and the Rules of Probability	Use the rules of probability to compute probabilities of compound events in a uniform probability model
S-MD.A	Statistics and Probability	Using Probability to Make Decisions	Calculate expected values and use them to solve problems
S-MD.B	Statistics and Probability	Using Probability to Make Decisions	Use probability to evaluate outcomes of decisions