
California 7th Grade Math Curriculum Overview

California follows the Common Core State Standards (CCSS) which include these major domains for Grade 7 math:

1. Ratios and Proportional Relationships (RP)

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Compute unit rates and percentages.
 - Solve problems involving scale drawings.
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2. The Number System (NS)

- Apply and extend operations with rational numbers (including negative numbers).
 - Perform all operations with rational numbers fluently.
 - Understand absolute value and order of rational numbers.
 - Solve problems involving addition, subtraction, multiplication, and division of rational numbers.
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3. Expressions and Equations (EE)

- Simplify and factor linear expressions.
 - Solve linear equations and inequalities in one variable.
 - Solve systems of two linear equations.
 - Use formulas and equations to solve real-life problems.
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4. Geometry (G)

- Draw, construct, and describe geometric figures with given conditions.
 - Understand and apply the Pythagorean theorem.
 - Solve problems involving angle measures, area, surface area, and volume.
 - Work with scale drawings and understand similarity.
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5. Statistics and Probability (SP)

- Use random sampling to draw inferences about populations.
 - Understand and calculate measures of center (mean, median, mode).
 - Analyze probability models and calculate probabilities of compound events.
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Learning Goals by End of Grade 7

- Master operations with rational numbers and solve related problems.
- Solve and graph linear equations, inequalities, and systems of equations.
- Apply geometric concepts including the Pythagorean theorem and similarity.
- Analyze and interpret data to make informed conclusions about populations and probabilities.