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## **California 6th Grade Math Standards Overview**

California follows the **Common Core State Standards (CCSS)**. Below are the key domains and standards for Grade 6.

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### **1. Ratios and Proportional Relationships (RP)**

- **Understand ratio concepts and use ratio reasoning to solve problems**
    - Understand ratio language and notation
    - Use ratio tables and tape diagrams
    - Solve problems involving unit rates and percentages
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### **2. The Number System (NS)**

- **Apply and extend previous understandings of multiplication and division to divide fractions by fractions**
  - **Compute fluently with multi-digit numbers and find common factors and multiples**
  - **Understand positive and negative numbers and their placement on the number line**
  - **Perform operations with decimals, fractions, and integers**
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### **3. Expressions and Equations (EE)**

- **Write, read, and evaluate expressions involving variables**
  - **Apply properties of operations to generate equivalent expressions**
  - **Solve one-step equations and inequalities involving positive and negative rational numbers**
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### **4. Geometry (G)**

- **Find areas of two-dimensional shapes**
  - **Understand and calculate surface area and volume of three-dimensional shapes**
  - **Plot points on the coordinate plane and understand its four quadrants**
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### **5. Statistics and Probability (SP)**

- **Develop understanding of statistical variability**
  - **Summarize and describe distributions**
  - **Use data to make inferences and predictions**
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#### **Learning Goals for 6th Grade California Math**

- Solve ratio and rate problems confidently
  - Compute operations with fractions, decimals, and integers
  - Write and solve algebraic expressions and equations
  - Analyze geometric figures and calculate area, surface area, and volume
  - Understand basic statistics and probability concepts
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