

California 4th Grade Math Standards Overview

California follows the **Common Core State Standards (CCSS)** for Math

1. Operations & Algebraic Thinking (OA)

- **Use the four operations with whole numbers to solve problems**
 - Solve multistep word problems using addition, subtraction, multiplication, and division.
 - Understand factors and multiples.
 - Generate and analyze patterns.
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2. Number & Operations in Base Ten (NBT)

- **Understand place value**
 - Read and write multi-digit whole numbers using digits, number names, and expanded form.
 - Round whole numbers to any place.
 - **Perform operations with multi-digit whole numbers**
 - Fluently add and subtract multi-digit whole numbers.
 - Multiply a whole number of up to four digits by a one-digit whole number.
 - Multiply two two-digit numbers.
 - Find whole-number quotients and remainders.
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3. Number & Operations — Fractions (NF)

- **Extend understanding of fraction equivalence and ordering**
 - Compare fractions with different numerators and denominators.
 - Recognize and generate equivalent fractions.
- **Build fractions from unit fractions**
 - Understand addition and subtraction of fractions as joining and separating parts.
- **Use decimal notation for fractions**
 - Express fractions with denominators 10 or 100 as decimals.

- **Compare decimals**

- Compare two decimals to hundredths by reasoning about their size.
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4. Measurement & Data (MD)

- **Solve problems involving measurement and conversion**

- Know relative sizes of measurement units within one system (km, m, cm; kg, g; l, ml).
- Convert measurements within a system (e.g., cm to m).
- Represent and interpret data using line plots.

- **Understand concepts of angle and measure angles**

- Measure angles in whole-number degrees using a protractor.
 - Recognize angle types (right, acute, obtuse).
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5. Geometry (G)

- **Draw and identify lines and angles**

- Understand lines, rays, line segments, and angles.

- **Classify shapes by properties**

- Classify two-dimensional figures based on properties of their lines and angles.
 - Recognize symmetry.
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Learning Goals for 4th Grade California Math

- Master multi-digit arithmetic and problem-solving using all four operations.
- Develop fraction sense and connect fractions to decimals.
- Measure and understand angles, convert measurements.
- Analyze and represent data clearly.
- Classify shapes and understand geometric concepts.