

Math 2

Math 2 emphasizes fractions and decimals with a review of whole numbers. Students' goal is to master all four operations with both fraction and decimals. Math 2 may include an introduction to ratio, percentage, graphing, statistics, word problems, and other enrichment topics.

The content of math 2 includes third through seventh grade standards.

| Concept and/or skill | Strand | Standards |
|--|------------------------|---|
| Introduction to problem solving: reading to understand a problem; making your plan; solving a problem; checking the answer | Mathematical Reasoning | All levels |
| Reading and writing whole numbers | Number Sense | 3 rd gr. 1.1 4 th gr. 1.1 |
| Writing large whole numbers | Number Sense | 5 th gr. 1.1 |
| Rounding whole numbers | Number Sense | 3 rd gr. 1.4 4 th gr. 1.3 5 th gr. 1.1 |
| Adding whole numbers | Number Sense | 3 rd gr. 2.1 4 th gr. 3.1 |
| Even and odd numbers | Number Sense | 1 st gr. 2.4 |
| Subtracting whole numbers | Number Sense | 3 rd gr. 2.1 4 th gr. 3.1 |
| Multiplying whole numbers by 1-digit numbers | Number Sense | 3 rd gr. 2.4 |
| Multiplying whole numbers by numbers greater than 10 | Number Sense | 4 th gr. 3.2, 3.3 5 th gr.* |
| Exponents | Number Sense | 5 th gr. 1.3 7 th gr. 1.2 |
| Dividing numbers by 1-digit divisors | Number Sense | 3 rd gr. 2.5 4 th gr. 3.2, 3.4 |
| Tests for divisibility | Number Sense | 6 th gr.* |
| Dividing whole numbers by numbers greater than 10 | Number Sense | 5 th gr. 2.2 |
| Prime and composite numbers | Number Sense | 4 th gr. 4.2 |
| Prime factorization | Number Sense | 4 th gr. 4.1 5 th gr. 1.4 |
| Greatest common factor | Number Sense | 6 th gr. 2.4 |

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| Introduction to decimals | Number Sense | 3 rd gr.* |
| Reading decimals | Number Sense | 3 rd gr.* 4 th gr.* |
| Writing decimals | Number Sense | 4 th gr.* |
| Rounding decimals | Number Sense | 4 th gr. 2.2 5 th gr. 1.1 |
| Comparing decimals | Number Sense | 4 th gr. 1.2 6 th gr. 1.1 |
| Adding decimals | Number Sense | 4 th gr. 2.1 5 th gr. 2.1 7 th gr. 1.2 |
| Subtracting decimals | Number Sense | 4 th gr. 2.1 5 th gr. 2.1 7 th gr. 1.2 |
| Multiplying decimals | Number Sense | 5 th gr. 2.1 7 th gr. 1.2 |
| Dividing decimals by whole numbers | Number Sense | 5 th gr. 2.1, 2.2 7 th gr. 1.2 |
| Dividing decimals by decimals | Number Sense | 5 th gr. 2.1, 2.2 7 th gr. 1.2 |
| Finding what decimal part one number is of another | Number Sense | 6 th gr.* |
| Finding the number when a decimal part is known | Number Sense | 6 th gr.* |
| Powers of ten | Number Sense | 5 th gr.* |
| Multiplying by powers of 10 | Number Sense | 4 th gr.* |
| Dividing by powers of 10 | Number Sense | 4 th gr.* |
| Scientific notation | Number Sense | 7 th gr. 1.1 |
| Problem solving strategy: solving a simpler problem | Mathematical Reasoning | All levels |
| Introduction to fractions | Number Sense | 3 rd gr. 3.1, 3.3. 4 th gr. 1.5, 1.7 |
| Expressing fractions in lowest form | Number Sense | 4 th gr. * 6 th gr. 2.4 |

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| Improper fractions and mixed numbers | Number Sense | 3 rd gr.* 4 th gr.* |
| Expressing fractions in higher terms | Number Sense | 4 th gr.* |
| Equivalent fractions | Number Sense | 4 th gr.* |
| Multiples | Number Sense | 6 th gr. 2.4 |
| Comparing fractions and rounding mixed numbers | Number Sense | 6 th gr. 1.1 |
| Least common denominator | Number Sense | 6 th gr. 2.4 |
| Adding fractions and mixed numbers | Number Sense | 3 rd gr. 3.2 5 th gr. 2.3 6 th gr. 2.1 7 th gr. 1.2 |
| Subtracting fractions and mixed numbers | Number Sense | 3 rd gr. 3.2 5 th gr. 2.3 6 th gr. 2.1 7 th gr. 1.2 |
| Writing mixed numbers as improper fractions | Number Sense | 3 rd gr.* 4 th gr.* |
| Multiplying fractions and mixed numbers | Number Sense | 5 th gr. 2.4, 2.5 6 th gr. 2.1 7 th gr. 1.2 |
| Multiplicative inverse | Number Sense | 5 th gr. 2.4 6 th gr. 1.3 2.2 |
| Dividing fractions and mixed numbers | Number Sense | 5 th gr. 2.4, 2.5 6 th gr. 2.1, 2.2 7 th gr. 1.2 |
| Fractional parts of numbers | Number Sense | 5 th gr. 2.4, 2.5 6 th gr. 2.1 7 th gr. 1.2 |
| Problem solving strategy: guess and test | Mathematical | All levels |

| | Reasoning | |
|---|--------------|---|
| Writing fractions as decimals | Number Sense | 3 rd gr. 3.4, 4 th gr. 1.6 5 th gr. 1.2 7 th gr. 1.3 |
| Repeating decimals | Number Sense | 3 rd gr. 3.4 7 th gr. 1.5 |
| Writing decimals as fractions | Number Sense | 3 rd gr. 3.4 4 th gr. 1.6 7 th gr. 1.5 |
| Ratio? | Number Sense | 6 th gr. 1.2 |
| Proportion? | Number Sense | 6 th gr. 1.3 |
| Introduction to percent | Number Sense | 5 th gr. 1.2? |
| Meaning of percent | Number Sense | 5 th gr. 1.2 |
| Writing percents as decimals | Number Sense | 7 th gr. 1.0 |
| Writing decimals as percents | Number Sense | 7 th gr. 1.0 |
| Writing percents as fractions | Number Sense | 7 th gr. 1.0 |
| Writing fractions and mixed numbers as percents | Number Sense | 5 th gr. 1.2 7 th gr. 1.3 |

* These topics are not mentioned specifically in the California standards; the grade levels denoted give an approximation of when the topics might be covered.