

Math 1

The major focus of this course is a mastery of whole number concepts and operations. Additionally, students are introduced to fractions and decimals. Other topics may include patterns, measurement, money, word problems, and applications.

The span of a Math 1 course includes elements of the third and fourth grade California Math Standards.

Concept and/or skill	Strand	Standards
Reading and writing whole numbers	Number Sense	3 rd gr. 1.1, 3.1.3, 4.1.1
Reading and writing decimals	Number Sense	
Problem solving (approaching word problems)	Mathematical Reasoning	All levels
Comparing and ordering whole numbers	Number Sense	3 rd gr. 1.2, 4.1.2
Comparing and ordering decimals	Number Sense	4 th gr. 1.2, 5.1
Rounding whole numbers	Number Sense	3 rd gr. 1.4, 4 th gr. 1.4
Rounding decimals	Number Sense	5 th gr. 1.1
Adding whole numbers and decimals	Number Sense	3 rd gr. 2.1, 4 th gr. 2.1, 3.1, 5 th gr. 2.0
Subtracting whole numbers and decimals	Number Sense	3 rd gr. 2.1, 4 th .2.1 .3.1, 5 th 2.1
Subtracting whole numbers and decimals with zeros (regrouping)	Number Sense	3 rd gr. 2.1 4 th gr. 2.1, 3.1 5 th gr. 2.0
Estimating sums and differences	Number Sense	4 th gr. 1.4, 2.1, 2.2 5 th gr. 1.1
Introduction to multiplication	Number Sense	3 rd gr. 2.6 4 th gr. 4.1
Multiplying by 1-digit multipliers	Number Sense	3 rd gr. 2.4
Multiplying by powers and multiples of 10	Number Sense	
Multiplying by 2-digit and 3-digit multipliers	Number Sense	4 th gr. 3.2, 3.3 5 th gr. 2.0
Estimating products	Number Sense	
Multiplying Decimals and whole numbers	Number Sense	5 th gr. 2.1
Multiplying decimals by decimals	Number Sense	5 th gr. 2.1
Choosing ways to compute (mental math, pencil-and-paper, calculator)	Mathematical Reasoning Number Sense	All levels 6 th gr. 2.1
Introduction to division	Number Sense	3 rd gr. 2.3

Dividing by 1-digit divisors	Number Sense	3 rd gr. 2.5 4 th gr. 3.2, 3.4
Dividing by powers and multiples of 10	Number Sense	
Estimating quotients	Number Sense	
Dividing by 2-digit divisors	Number Sense	5 th gr.*
<i>Dividing by 3-digit divisors</i>	Number Sense	5 th gr.*
Choosing the operation	Number Sense Mathematical Reasoning	
Using the order of operations?	Algebra and Functions	4 th gr. 1.3, 6 th gr. 1.3
Dividing decimals by whole numbers	Number Sense	5 th gr. 2.1
Rounding quotients (also to money places)	Number Sense	
Understanding fractions Factors Terminology: numerator, denominator, mixed number, improper fractions	Number Sense Number Sense Number Sense Number Sense	3 rd gr. 3.1 4 th gr. 4.1
Finding equivalent fractions	Number Sense	
Writing fractions and mixed numbers (conversions between whole numbers and proper and improper fractions)	Number Sense	
Comparing fractions and mixed numbers	Number Sense	6 th gr. 1.1
Factoring to find the greatest common factor	Number Sense	6 th gr. 2.4
Writing fractions in lowest terms	Number Sense	6 th gr. 2.4
<i>Reading of Graphs</i>		
<i>Perimeter, Plotting points</i>		
<i>Simple equations: $x+3 = 10$</i>		

Bold = Strong Need

Italicize = Just Introduce

Modified by consensus 2/11/06