

## Topic: Fractions, Decimals, and Numbers – Grade 5

### Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A	Place Value/Expanded Notation/Order, Name, & Compare Numbers		
Lesson 1	Place Value to 1,000s	Demonstrate an understanding of place value to the millions place.	3 NS 1.3
Lesson 2	Place Value to 1,000,000s		4 NS 1.1 5 NS 1.1
Lesson 3	Naming Numbers	Demonstrate an understanding of the names of numbers and their numerical representations.	3 NS 1.1
Lesson 4	Naming Numbers		4 NS 1.1 5 NS 1.1
Lesson 5	Expanded Notation	Demonstrate the ability to identify numbers from expanded notation & to write numbers using expanded notation.	3 NS 1.5
Lesson 6	Expanded Notation		5 NS 1.1
Lesson 7	Ordering Numbers	Demonstrate the ability to place numbers in order from least to greatest.	3 NS 1.2
Lesson 8	Ordering Numbers		4 NS 1.2
Lesson 9	Ordering Numbers		5 NS 1.1
Lesson 10	Comparing Whole Numbers	Demonstrate the ability to use the symbols $<$ , $>$ , $=$ to compare whole numbers.	3 NS 1.2
Lesson 11	Comparing Whole Numbers		4 NS 1.2
Assess 1B	Place Value/Expanded Notation/Order, Name, & Compare Numbers		
Assess 2A	Ordering & Comparing Decimals/Fractions/Integers		
Lesson 12	Place Value of Decimals to 0.1	Demonstrate an understanding of place value to the tenths place.	5 NS 1.1
Lesson 13	Place Value of Decimals to 0.01	Demonstrate an understanding of place value to the hundredths place.	
Lesson 14	# Lines – Decimals	Identify & place whole numbers, decimals, & positive & negative integers on a number line.	3 NS 1.2 4 NS 1.9 5 NS 1.5
Lesson 15	Decimal Models	Use models to represent fractions and decimals.	3 NS 3.1 4 NS 1.5, 1.7
Lesson 16	Comparing Decimals	Demonstrate the ability to use the symbols $<$ , $>$ , $=$ to compare decimals.	4 NS 1.2
Lesson 17	Comparing Decimals		
Lesson 18	# Lines – Positive & Negative Integers	Identify and place whole numbers, decimals, and positive and negative integers on a number line.	3 NS 1.2 4 NS 1.9 5 NS 1.5
Lesson 19	Comparing Positive & Negative Integers	Demonstrate the ability to use the symbols $<$ , $>$ , $=$ to compare positive and negative integers.	4 NS 1.8
Lesson 20	Comparing Positive & Negative Integers		
Lesson 21	Fraction Models	Use models to represent fractions and decimals.	3 NS 3.1 4 NS 1.5, 1.7
Lesson 22	Finding Fractions on a Number Line	Identify and place fractions, mixed numbers, and decimals on a number line.	3 NS 3.1 4 NS 1.9 5 NS 1.5
Lesson 23	Finding Mixed Numbers on a Number Line		
Lesson 24	Finding Fractions & Decimals on a Number Line		
Assess 2B	Ordering & Comparing Decimals/Fractions/Integers		

#### California Standards References

**NS** – Number Sense

**SDAP** – Statistics, Data Analysis, & Probability

**AF** – Algebra & Functions

**MR** – Mathematical Reasoning

**MG** – Measurement & Geometry

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Assess 3A	Fraction & Decimal Computation		
Lesson 25	Adding Like Fractions	Add fractions with like denominators.	3 NS 3.2 5 NS 2.3
Lesson 26	Subtracting Like Fractions	Subtract fractions with like denominators.	3 NS 3.2 5 NS 2.3
Lesson 27	Finding the Lowest Common Denominator	Find the lowest common denominator of given numbers.	5 NS 2.3
Lesson 28	Finding the Lowest Common Denominator		
Lesson 29	Adding Unlike Fractions	Add and subtract fractions with unlike denominators.	5 NS 2.3
Lesson 30	Subtracting Unlike Fractions		
Lesson 31	Adding and Subtracting Unlike Fractions		
Lesson 32	Multiplying Fractions	Multiply and divide fractions.	5 NS 2.4, 2.5
Lesson 33	Dividing Fractions		
Lesson 34	Multiplying and Dividing Fractions		
Lesson 35	Adding with Decimals	Add, subtract, multiply, and divide with decimals.	3 NS 3.3 4 NS 2.1 5 NS 2.1
Lesson 36	Subtracting with Decimals		
Lesson 37	Multiplying with Decimals		
Lesson 38	Dividing with Decimals		
Assess 3B	Fraction & Decimal Computation		

**1.0 Number Sense**

- 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers. (1 item on CST)
- 1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers. (2 items on CST)

**2.0 Number Sense**

- 2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. (7 items on CST)
- 2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form. (5 items on CST)
- 2.4 Understand the concept of multiplication and division of fractions. (1 item on CST)
- 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems. (1 item on CST)

California Standards References

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## Topic: Computing and Problem Solving – Grade 5

### Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A	Addition & Subtraction		
Lesson 1	Adding Whole Numbers – Regrouping	Demonstrate the ability to add whole numbers with regrouping.	3 NS 2.1 4 NS 2.1, 3.1
Lesson 2			
Lesson 3	Addition in Context	Add and subtract whole numbers in context.	3 NS 2.1 4 NS 2.1
Lesson 4	Subtracting Whole Numbers – Regrouping	Demonstrate the ability to subtract whole numbers with regrouping.	3 NS 2.1 4 NS 2.1, 3.1
Lesson 5			
Lesson 6	Subtraction in Context	Add and subtract whole numbers in context.	3 NS 2.1 4 NS 2.1
Lesson 7	Addition/Subtraction of Decimals in Context	Add and subtract decimals from context.	3 NS 3.3 4 NS 2.1 5 NS 2.1
Lesson 8	Adding with Negative Integers	Add & subtract positive & negative integers.	5 NS 2.1
Lesson 9			
Assess 1B	Addition & Subtraction		

Assess 2A	Multiplication/Factors/Exponents		
Lesson 10	Multiplication Facts	Demonstrate the knowledge of the basic multiplication facts.	3 NS 2.2, 2.6
Lesson 11			
Lesson 12	Multi-digit Multiplication	Demonstrate the ability to multiply multi-digit whole numbers.	3 NS 2.4 4 NS 3.2, 3.3
Lesson 13			
Lesson 14			
Lesson 15	Multiplication in Context	Multiply and divide whole numbers in context.	3 NS 2.4, 2.5 4 NS 3.2, 3.3, 3.4
Lesson 16	Factors	Demonstrate the understanding of the factors of larger numbers.	4 NS 4.2 5 NS 1.4
Lesson 17			
Lesson 18	Exponents	Demonstrate the ability to use exponents.	5 NS 1.3
Lesson 19			
Assess 2B	Multiplication/Factors/Exponents		

Assess 3A	Division/Multiplication & Division in Context		
Lesson 20	Division Facts	Demonstrate the knowledge of the basic division facts.	3 NS 2.5 4 NS 3.4
Lesson 21			
Lesson 22	Long Division	Demonstrate the ability to divide multi-digit whole numbers by single digit divisors.	3 NS 2.5 4 NS 3.4 5 NS 2.2
Lesson 23			
Lesson 24			
Lesson 25	Division in Context	Multiply and divide whole numbers in context.	3 NS 2.4, 2.5 4 NS 3.2, 3.3, 3.4
Lesson 26	Multiplication/Division of Decimals in Context	Multiply and divide decimals from context.	3 NS 3.3 4 NS 2.1, 3.2, 3.3, 3.4 5 NS 2.1

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Lesson 27	Multiple Operations in Context	<i>Solve multi-step computation problems from context.</i>	3 NS 2.1, 2.4, 2.5, 2.8 4 NS 2.1, 3.2, 3.3, 3.4 5 NS 2.1
Lesson 28	Multiple Operations in Context		
Assess 3B	Division/Multiplication & Division in Context		

Assess 4A	Equivalence/Percent/Rounding		
Lesson 29	Fraction/Decimals Equivalents	<i>Demonstrate the ability to show fraction and decimal equivalents.</i>	4 NS 1.5 5 NS 1.2
Lesson 30	Representing % as Fractions & Decimals	<i>Demonstrate the ability to show percents as fractions and decimals.</i>	5 NS 1.2
Lesson 31	Representing % as Fractions & Decimals		
Lesson 32	Calculating Percent	<i>Demonstrate the ability to calculate the given percent of a number.</i>	5 NS 1.2
Lesson 33	Calculating Percent		
Lesson 34	Calculating Percent		
Lesson 35	Round to the Nearest 10	<i>Demonstrate the ability to round whole numbers to the given place values.</i>	3 NS 1.4 4 NS 1.3 5 NS 1.1
Lesson 36	Round to the Nearest 100 or 1,000		
Lesson 37	Round to the Nearest 10,000, 100,000, or 1,000,000		
Assess 4B	Equivalence/Percent/Rounding		

### 1.0 Number Sense

**1.1** Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers. (1 item on CST)

**1.2** Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number. (5 items on CST)

**1.3** Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication. (1 item on CST)

**1.4** Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor (e.g.,  $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$ ). (3 items on CST)

### 2.0 Number Sense

**2.1** Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. (7 items on CST)

**2.2** Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors. (3 items on CST)

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## Topic: Algebraic Operations and Problem Solving – Grade 5

### Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A	Properties/Order of Operations/Using Variables		
Lesson 1	Commutative Property of Addition	<i>Demonstrate an understanding of the properties used in problem solving.</i>	3 AF 1.5 5 AF 1.3
Lesson 2	Commutative Property of Multiplication		
Lesson 3	Associative Property of Multiplication		
Lesson 4	Distributive Property of Multiplication		
Lesson 5	Using the Distributive Property	<i>Demonstrate the ability to use the distributive property in equations &amp; expressions with variables.</i>	5 AF 1.3
Lesson 6	Using the Distributive Property		
Lesson 7	Using the Distributive Property		
Lesson 8	Order of Operations	<i>Demonstrate an understanding of the order of operations.</i>	4 AF 1.2, 1.3
Lesson 9	Order of Operations		
Lesson 10	Using Variables with Addition	<i>Use variables in addition problems.</i>	4 AF 1.1 5 AF 1.2
Lesson 11	Using Variables with Subtraction	<i>Use variables in subtraction problems.</i>	4 AF 1.1 5 AF 1.2
Lesson 12	Using Variables with Multiplication	<i>Use variables in multiplication problems.</i>	4 AF 1.1 5 AF 1.2
Lesson 13	Using Variables with Division	<i>Use variables in division problems.</i>	4 AF 1.1 5 AF 1.2
Assess 1B	Properties/Order of Operations/Using Variables		

Assess 2A	Variables/Equations/Total Cost/Unit Conversions		
Lesson 14	Solving Equations with Variables	<i>Use variables in computing solutions to problems.</i>	4 AF 1.1, 1.5, 2.1, 2.2
Lesson 15	Solving Equations with Variables		
Lesson 16	Using Unit Conversions	<i>Express and compute using unit conversions.</i>	3 AF 1.4 3 MG 1.4
Lesson 17	Using Unit Conversions		
Lesson 18	Determining Total Cost	<i>Determine the total cost when given unit cost.</i>	3 AF 2.1
Lesson 19	Determining Total Cost		
Lesson 20	Writing Equations	<i>Demonstrate the ability write an equation to fit a given problem situation.</i>	3 AF 1.1, 1.3 4 AF 1.1 5 AF 1.2
Lesson 21	Writing Equations		
Lesson 22	Writing Equations		
Assess 2B	Variables/Equations/Total Cost/Unit Conversions		

Assess 3A	Linear Equations and Inequalities		
Lesson 23	Solving Linear Equations	<i>Solve linear equations.</i>	4 AF 1.5, 2.1, 2.2 5 AF 1.5
Lesson 24	Solving Linear Equations		
Lesson 25	Solving Linear Equations		
Lesson 26	Solving Linear Equations		
Lesson 27	Solving Linear Equations		

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## Topic: Algebraic Operations and Problem Solving – Grade 5

### Standards Plus® Reteach - Math - Lesson Index

Lesson 28	Solving and Graphing Linear Equations	<i>Solve and graph linear equations.</i>	4 AF 2.1, 2.2 5 AF 1.4, 1.5 5 SDAP 1.5
Lesson 29	Solving and Graphing Linear Equations		
Lesson 30	Solving and Graphing Linear Equations		
Lesson 31	Solving and Graphing Linear Equations		
Lesson 32	Solving and Graphing Linear Equations		
Lesson 33	Solving and Graphing Linear Equations		
Lesson 34	Writing and Solving Inequalities	<i>Demonstrate an ability to write and solve inequalities.</i>	3 AF 1.2 4 AF 2.1, 2.2
Lesson 35	Writing and Solving Inequalities		
Lesson 36	Solving Inequalities		
Assess 3B	Linear Equations and Inequalities		

#### **I.0 Algebra and Functions**

- I.2** Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution. (6 items on CST)
- I.3** Know and use the distributive property in equations and expressions with variables. (1 item on CST)
- I.4** Identify and graph ordered pairs in the four quadrants of the coordinate plane. (4 items on CST)
- I.5** Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid. (5 items on CST)

#### **I.0 Statistics, Data Analysis, and Probability**

- I.5** Know how to write ordered pairs correctly; for example,  $(x, y)$ . (1 item every 2 yrs. on CST)

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# Topic: Measurement, Geometry, Statistics, and Probability – Grade 5

## Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A	Measurement		
Lesson 1	Parallel / Perpendicular Lines	Identify parallel and perpendicular lines.	4 MG 3.1 5 MG 2.1
Lesson 2	Parallel / Perpendicular Lines		
Lesson 3	Using x- and y-coordinates to determine length.	Determine the length of a line segment using the x- and y- coordinates.	4 MG 2.1, 2.2, 2.3 5 AF 1.4
Lesson 4	Using x- and y-coordinates to determine length.		
Lesson 5	Using x- and y-coordinates to determine length.		
Lesson 6	Determining Perimeter	Determine perimeter of given figures.	3 MG 1.3 4 MG 1.4
Lesson 7	Determining Perimeter		
Lesson 8	Determining Perimeter & Area		
Lesson 9	Determining Area	Determine area of given figures.	4 MG 1.1, 1.4
Lesson 10	Determining Area		
Lesson 11	Determining Area		
Lesson 12	Determining Volume	Determine volume of given figures.	5 MG 1.3
Lesson 13	Determining Volume		
Assess 1B	Measurement		

Assess 2A	Geometry		
Lesson 14	Parts of a Circle	Identify the parts of a circle.	4 MG 3.2
Lesson 15	Attributes of Polygons	Compare polygons using number of sides and angles, size, and angle measure.	3 MG 2.1 4 MG 3.3
Lesson 16	Attributes of Solids	Compare solids using number of sides, angles, and faces, and size and angle measure.	3 MG 2.5 4 MG 3.3
Lesson 17	Attributes of Solids		
Lesson 18	Attributes of Solids		
Lesson 19	Classifying Angles by their Measure	Classify angles as acute, right, or obtuse.	3 MG 2.4 4 MG 3.5
Lesson 20	Classifying Angles by their Measure		
Lesson 21	Classifying Triangles by their Angles	Classify triangles as acute, right, or obtuse.	3 MG 2.4 MG 3.7
Lesson 22	Find the Measure of an Angle in a Triangle	Determine the measure of a missing angle in a triangle.	3 MG 2.4 4 MG 3.5 5 MG 1.1, 2.2
Lesson 23	Find the Measure of an Angle in a Triangle		
Lesson 24	Classifying Quadrilaterals	Classify quadrilaterals by their angles and sides.	4 MG 3.8
Lesson 25	Classifying Quadrilaterals		
Lesson 26	Find the Measure of an Angle in a Quadrilateral	Determine the measure of a missing angle in a quadrilateral.	5 MG 1.1, 2.2
Assess 2B	Geometry		

Assess 3A	Statistics, Data Analysis, and Probability		
Lesson 27	Data from a Bar Graph	Answer questions about data displayed on a bar graph.	3 SDAP 1.3 4 SDAP 1.3
Lesson 28	Data from a Tally Chart	Answer questions about data displayed on a tally chart.	3 SDAP 1.3 4 SDAP 1.3

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# Topic: Measurement, Geometry, Statistics, and Probability – Grade 5

## Standards Plus® Reteach - Math - Lesson Index

Lesson 29	Displaying Data	<i>Display given data in an organized manner.</i>	3 SDAP 1.3 4 SDAP 1.1 5 SDAP 1.2, 1.4
Lesson 30	Displaying Data		
Lesson 31	Displaying Data		
Lesson 32	Displaying Data		
Lesson 33	Determining Range	<i>Determine mean, median, mode, and range for a given data set.</i>	4 SDAP 1.2 5 SDAP 1.1
Lesson 34	Determining Mode		
Lesson 35	Determining Median		
Lesson 36	Determining Mean		
Lesson 37	Determining Mean, Median, Mode, & Range		
Lesson 38	Determining Mean, Median, Mode, & Range		
Lesson 39	Determining Mean, Median, Mode, & Range		
Assess 3B	Statistics, Data Analysis, and Probability		

### 1.0 Measurement & Geometry

- 1.1 Derive and use the formula for the area of a triangle and of a parallelogram by comparing each with the formula for the area of a rectangle (i.e., two of the same triangles make a parallelogram with twice the area; a parallelogram is compared with a rectangle of the same area by pasting and cutting a right triangle on the parallelogram). (2 items on CST)
- 1.3 Understand the concept of volume and use the appropriate units in common measuring systems (i.e., cubic centimeter [cm<sup>3</sup>], cubic meter [m<sup>3</sup>], cubic inch [in.<sup>3</sup>], cubic yard [yd.<sup>3</sup>]) to compute the volume of rectangular solids. (3 items on CST)

### 2.0 Measurement & Geometry

- 2.1 Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (e.g., straightedge, ruler, compass, protractor, drawing software). (3 items on CST)
- 2.2 Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and use this information to solve problems. (4 items on CST)

### 1.0 Statistics, Data Analysis, & Probability

- 1.1 Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ. (1 item every 3 yrs. on CST)
- 1.2 Organize and display single-variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for various data sets. (1 item every 3 yrs. on CST)
- 1.4 Identify ordered pairs of data from a graph and interpret the meaning of the data in terms of the situation depicted by the graph. (2 items on CST)

### 1.0 Algebra & Functions

- 1.4 Identify and graph ordered pairs in the four quadrants of the coordinate plane. (4 items on CST)

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