

Topic: Fractions, Decimals, and Numbers – Grade 3

Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A	Identifying, Counting, Naming Numbers/Expanded Notation		
Lesson 1	Counting On	Demonstrate an understanding of counting on from a number other than one.	3 NS 1.1
Lesson 2	Place Value Ones and Tens	Demonstrate an understanding of place value to the millions place.	1 NS 1.4 2 NS 1.1 3 NS 1.3
Lesson 3	Place Value to 100s		
Lesson 4	Place Value to 1,000s		
Lesson 5	Place Value to 1,000,000s		
Lesson 6	Naming Numbers	Demonstrate an understanding of the names of numbers and their numerical representations.	1 NS 1.1 2 NS 1.1 3 NS 1.1
Lesson 7	Naming Numbers		
Lesson 8	Expanded Notation	Demonstrate the ability to identify numbers from expanded notation and to write numbers using expanded notation.	1 NS 1.4 2 NS 1.2 3 NS 1.5
Lesson 9	Expanded Notation		
Lesson 10	Expanded Notation		
Assess 1B	Identifying, Counting, Naming Numbers/ Expanded Notation		
Assess 2A	Ordering & Comparing Numbers		
Lesson 11	Ordering Numbers	Demonstrate the ability to place numbers in order from least to greatest.	1 NS 1.2 2 NS 1.3 3 NS 1.2
Lesson 12	Ordering Numbers		
Lesson 13	Ordering Numbers		
Lesson 14	Comparing Numbers	Demonstrate the ability to use the symbols $<$, $>$, $+$ to compare whole numbers.	1 NS 1.2 2 NS 1.3 3 NS 1.2
Lesson 15	Comparing Numbers		
Lesson 16	Comparing Numbers		
Lesson 17	# Lines – Whole Numbers	Identify and place whole numbers, decimals, and positive and negative integers on a number line.	3 NS 1.2
Assess 2B	Ordering & Comparing Numbers		
Assess 3A	Fractions		
Lesson 18	Identify and Write Fractions to 1/12	Identify figures that are divided into fractional parts.	1 SDAP 1.1 2 NS 4.1
Lesson 19	Fractions: Part of the Group	Identify fractions that are part of a group.	2 NS 4.2
Lesson 20	Fractions: Part of the Whole	Identify fractions that are part of the whole.	2 NS 4.2
Lesson 21	Fractions: Equal to One	Recognize fractions that are equal to one.	2 NS 4.3
Lesson 22	Fraction Models	Use models to represent fractions and decimals.	3 NS 3.1
Lesson 23	Finding Fractions on a Number Line	Identify and place fractions, mixed numbers, and decimals on a number line.	3 NS 3.1

California Standards References

NS – Number Sense

SDAP – Statistics, Data Analysis, & Probability

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Lesson 24	Adding Like Fractions	Add fractions with like denominators.	3 NS 3.2
Lesson 25	Adding Like Fractions		
Lesson 26	Subtracting Like Fractions	Subtract fractions with like denominators.	3 NS 3.2
Lesson 27	Subtracting Like Fractions		
Assess 3B	Fractions		

Assess 4A	Money/Decimals		
Lesson 28	Adding Coins	Add coin values to determine money sums.	1 NS 1.5 2 NS 5.1, 5.2
Lesson 29	Adding Coins and Bills	Add coins and bills to determine money sums.	1 NS 1.5 2 NS 5.1, 5.2
Lesson 30	Making Change	Subtract money amounts to make change.	1 NS 1.5 2 NS 5.1, 5.2
Lesson 31	Adding with Decimals	Add, subtract, multiply, and divide with decimals.	3 NS 3.3
Lesson 32	Subtracting with Decimals		
Lesson 33	Multiplying with Decimals		
Assess 4B	Money/Decimals		

1.0 Number Sense

- 1.1 Count, read, and write whole numbers to 10,000. (1 item every 2 years on CST)
- 1.2 Compare and order whole numbers to 10,000. (1 item on CST)
- 1.3 Identify the place value for each digit in numbers to 10,000. (3 items on CST)
- 1.5 Use expanded notation to represent numbers (e.g., $3,206 = 3,000 + 200 + 6$). (3 items on CST)

3.0 Number Sense

- 3.1 Compare fractions represented by drawings or concrete materials to show equivalency and to add and subtract simple fractions in context (e.g., $\frac{1}{2}$ of a pizza is the same amount as $\frac{2}{4}$ of another pizza that is the same size; show that $\frac{3}{8}$ is larger than $\frac{1}{4}$). (1 item on CST)
- 3.2 Add and subtract simple fractions (e.g., determine that $\frac{1}{8} + \frac{3}{8}$ is the same as $\frac{1}{2}$). (2 items on CST)
- 3.3 Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimal notation and multiply and divide money amounts in decimal notation by using whole-number multipliers and divisors. (4 items on CST)

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Lesson	Focus	Lesson Objective	Standards
Assess 1A	Addition & Subtraction		
Lesson 1	Fact Families	Recognize the facts in addition/subtraction fact families	1 NS 2.2 2 NS 2.1
Lesson 2	Fact Families		
Lesson 3	Multi-Digit Addition – No Regrouping	Demonstrate the ability to add whole numbers with or without regrouping.	1 NS 2.6, 2.7 2 NS 2.2 3 NS 2.1
Lesson 4	Adding Whole Numbers – No Regrouping		
Lesson 5	Multi-Digit Addition – Regrouping	Demonstrate the ability to add whole numbers with or without regrouping.	1 NS 2.6, 2.7 2 NS 2.2 3 NS 2.1
Lesson 6	Adding Whole Numbers – Regrouping		
Lesson 7	Adding Whole Numbers – Regrouping		
Lesson 8	Multi-Digit Subtraction – No Regrouping	Demonstrate the ability to subtract whole numbers with or without regrouping.	1 NS 2.6 2 NS 2.2 3 NS 2.1
Lesson 9	Subtracting Whole Numbers – No Regrouping		
Lesson 10	Multi-Digit Subtraction – Regrouping	Demonstrate the ability to subtract whole numbers with or without regrouping.	1 NS 2.6 2 NS 2.2 3 NS 2.1
Lesson 11	Subtracting Whole Numbers – Regrouping		
Lesson 12	Subtracting Whole Numbers – Regrouping		
Assess 1B	Addition & Subtraction		

Assess 2A	Addition & Subtraction Problem Solving		
Lesson 13	Determining Operations - Addition	Use mathematical vocabulary to determine operations.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 14	Word Problems with Addition Facts	Solve word problems using the basic addition facts to 20.	1 NS 2.1
Lesson 15	Word Problems with Addition (No Regrouping)	Solve word problems using addition with no regrouping.	1 NS 2.6, 2.7 2 NS 2.2
Lesson 16	Addition in Context	Add and subtract whole numbers in context.	3 NS 2.1
Lesson 17	Checking the Validity of Answers with Addition	Check answers to addition word problems to verify validity.	1 MR 2.2 2 MR 2.2
Lesson 18	Determining Operations - Subtraction	Use mathematical vocabulary to determine operations.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 19	Word Problems with Subtraction Facts	Solve word problems using the basic subtraction facts to 20.	1 NS 2.1
Lesson 20	Word Problems with Subtraction (No Regrouping)	Solve word problems using subtraction with no regrouping.	1 NS 2.6, 2.7 2 NS 2.2
Lesson 21	Subtraction in Context	Add and subtract whole numbers in context.	3 NS 2.1
Lesson 22	Addition/Subtraction in Context		
Lesson 23	Checking the Validity of Answers with Subtraction	Check answers to subtraction word problems to verify validity.	1 MR 2.2 2 MR 2.2
Lesson 24	Addition/Subtraction of Decimals in Context	Add and subtract decimals from context.	3 NS 3.3
Lesson 25	Addition/Subtraction of Decimals in Context		
Assess 2B	Addition & Subtraction Problem Solving		

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Assess 3A	Multiplication		
Lesson 26	Skip Counting – by 2s	Count by 2s, 5s, and 10s to 100.	1 NS 2.4 2 NS 3.1
Lesson 27	Skip Counting – by 5s and 10s		
Lesson 28	Multiplication Facts: 2s	Practice the multiplication facts for the 2s, 5s, and 10s.	2 NS 3.3
Lesson 29	Multiplication Facts: 5s and 10s		
Lesson 30	Multiplication Facts	Demonstrate the knowledge of the basic multiplication facts.	3 NS 2.2, 2.6
Lesson 31	Multiplication Facts		
Lesson 32	Multi-digit Multiplication	Demonstrate the ability to multiply multi-digit whole numbers.	3 NS 2.4
Lesson 33	Multi-digit Multiplication		
Lesson 34	Multi-digit Multiplication		
Lesson 35	Multi-digit Multiplication		
Assess 3B	Multiplication		

Assess 4A	Dividing and Rounding		
Lesson 36	Division Facts	Demonstrate the knowledge of the basic division facts.	3 NS 2.5
Lesson 37	Division Facts		
Lesson 38	Multiplication in Context	Multiply and divide whole numbers in context.	3 NS 2.4, 2.5
Lesson 39	Division in Context		
Lesson 40	Multiple Operations in Context	Solve multi-step computation problems from context.	3 NS 2.1, 2.4, 2.5, 2.8
Lesson 41	Round to the Nearest 10	Demonstrate the ability to round whole numbers to the given place values.	3 NS 1.4
Lesson 42	Round to the Nearest 100 or 1,000		
Assess 4B	Dividing and Rounding		

1.0 Number Sense

1.4 Round off numbers to 10,000 to the nearest ten, hundred, and thousand. (1 item every 2 yrs. on CST)

2.0 Number Sense

2.1 Find the sum or difference of two whole numbers between 0 and 10,000. (4 items on CST)

2.2 Memorize to automaticity the multiplication table for numbers between 1 and 10. (Not tested on CST)

2.4 Solve simple problems involving multiplication of multidigit numbers by one-digit numbers ($3,671 \times 3 = \underline{\quad}$). (5 items on CST)

2.5 Solve division problems in which a multidigit number is evenly divided by a one-digit number ($135 \div 5 = \underline{\quad}$). (1 item on CST)

2.6 Understand the special properties of 0 and 1 in multiplication and division. (1 item on CST)

2.8 Solve problems that require two or more of the skills mentioned above. (1 item on CST)

3.0 Number Sense

3.3 Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimal notation and multiply and divide money amounts in decimal notation by using whole-number multipliers and divisors. (4 items on CST)

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Topic: Algebraic Operations and Problem Solving – Grade 3

Standards Plus® Reteach - Math - Lesson Index

Lesson	Focus	Lesson Objective	Standards
Assess 1A Addition & Subtraction Number Sentences			
Lesson 1	Using +, -, = in Number Sentences	Write and complete number sentences using +, -, and =.	1 AF 1.2
Lesson 2	Number Sentences – Addition	Select addition number sentences that match given story problems.	1 AF 1.1, 1.2 2 AF 1.2, 1.3
Lesson 3	Write Addition Sentences Using Story Problems	Write addition number sentences to match a given story problem.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 4	Number Sentences – Subtraction	Select subtraction number sentences that match given story problems.	1 AF 1.1, 1.2 2 AF 1.2, 1.3
Lesson 5	Write Subtraction Sentences Using Story Problems	Write subtraction number sentences to match a given story problem.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 6	Matching Number Sentences to Problems	Determine the number sentence that matches a given problem situation.	1 AF 1.1, 1.2 2 AF 1.2, 1.3
Lesson 7	Matching Number Sentences to Problems		
Lesson 8	Determining the Operation	Demonstrate the ability to determine the operation needed to solve a problem.	3 AF 1.1, 1.2, 1.3
Lesson 9	Determining the Operation		
Lesson 10	Determining the Operation		
Assess 1B Addition & Subtraction Number Sentences			
Assess 2A Properties & Variables			
Lesson 11	Commutative Property of Addition	Use the commutative property of addition to solve problems.	2 AF 1.1
Lesson 12	Commutative Property of Addition	Demonstrate an understanding of the properties used in problem solving.	2 AF 1.1 3 AF 1.5
Lesson 13	Commutative Property of Multiplication		
Lesson 14	Associative Property of Addition		
Lesson 15	Associative Property of Multiplication		
Lesson 16	Using Variables	Use variables to represent numbers in number sentences.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 17	Solving Addition Problems with Variables	Solve addition problems in which there is a variable.	1 AF 1.1, 1.2 2 AF 1.2
Lesson 18	Solving Subtraction Problems with Variables	Solve subtraction problems in which there is a variable.	1 AF 1.1, 1.2 2 AF 1.2
Assess 2B Properties & Variables			
Assess 3A Equations/Inequalities/Unit Conversions/Total Cost			
Lesson 19	Writing Equations	Demonstrate the ability write an equation to fit a given problem situation.	3 AF 1.1, 1.3
Lesson 20	Writing Equations		
Lesson 21	Using Unit Conversions	Express and compute using unit conversions.	3 AF 1.4 3 MG 1.4
Lesson 22	Using Unit Conversions		

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Lesson 23	Determining Total Cost	<i>Determine the total cost when given unit cost.</i>	3 AF 2.1
Lesson 24	Determining Total Cost		
Lesson 25	Writing Inequalities	<i>Demonstrate an ability to write and solve inequalities.</i>	3 AF 1.2
Lesson 26	Writing and Solving Inequalities		
Assess 3B	Equations/Inequalities/Unit Conversions/Total Cost		

1.0 Algebra and Functions

- 1.1 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities. (4 items on CST)
- 1.2 Solve problems involving numeric equations or inequalities. (1 item on CST)
- 1.3 Select appropriate operational and relational symbols to make an expression true (e.g., if $4 \underline{\quad} 3 = 12$, what operational symbol goes in the blank?). (1 item on CST)
- 1.4 Express simple unit conversions in symbolic form (e.g., $\underline{\quad}$ inches = $\underline{\quad}$ feet \times 12). (1 item on CST)
- 1.5 Recognize and use the commutative and associative properties of multiplication (e.g., if $5 \times 7 = 35$, then what is 7×5 ? and if $5 \times 7 \times 3 = 105$, then what is $7 \times 3 \times 5$?). (1 item on CST)

2.0 Algebra and Functions

- 2.1 Solve simple problems involving a functional relationship between two quantities (e.g., find the total cost of multiple items given the cost per unit). (3 items on CST)

1.0 Measurement & Geometry

- 1.4 Carry out simple unit conversions within a system of measurement (e.g., centimeters and meters, hours and minutes). (1 item on CST)

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Topic: Measurement, Geometry, Statistics, and Probability – Grade 3

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Lesson	Focus	Lesson Objective	Standards
Assess 1A	Measurement		
Lesson 1	Measuring Length	<i>Demonstrate the ability to determine length using standard and metric measures.</i>	2 MG 1.1, 1.3
Lesson 2	Measuring Length		
Lesson 3	Measuring Length		
Lesson 4	Measuring Length		
Lesson 5	Determining Length	<i>Demonstrate the ability to determine length using standard and metric measures.</i>	3 MG 1.1
Lesson 6	Determining Length		
Lesson 7	Determining Perimeter	<i>Determine perimeter of given figures.</i>	3 MG 1.3
Lesson 8	Determining Perimeter		
Lesson 9	Classifying Angles by their Measure	<i>Classify angles as acute, right, or obtuse.</i>	3 MG 2.4
Lesson 10	Classifying Angles by their Measure		
Lesson 11	Classifying Triangles by their Angles	<i>Classify triangles as acute, right, or obtuse.</i>	3 MG 2.4
Lesson 12	Classifying Triangles	<i>Classify triangles by angle measure and side length.</i>	3 MG 2.2
Lesson 13	Classifying Triangles		
Lesson 14	Attributes of Triangles	<i>Compare triangles by angle measure, side length, and size.</i>	3 MG 2.2
Lesson 15	Attributes of Triangles		
Lesson 16	Attributes of Triangles		
Lesson 17	Find the Measure of an Angle in a Triangle	<i>Determine the measure of a missing angle in a triangle.</i>	3 MG 2.4
Assess 1B	Measurement		
Assess 2A	Geometry		
Lesson 18	Triangles, Rectangles, Squares, Circles	<i>Identify, describe, and compare triangles, rectangles, squares, and circles.</i>	1 MG 2.1 2 MG 2.1
Lesson 19	Identify & Classify Polygons	<i>Identify polygons and classify by number of sides and angles.</i>	3 MG 2.1
Lesson 20	Identify & Classify Polygons		
Lesson 21	Attributes of Polygons	<i>Compare polygons using number of sides and angles, size, and angle measure.</i>	3 MG 2.1
Lesson 22	Attributes of Polygons		
Lesson 23	Classifying Quadrilaterals	<i>Classify quadrilaterals by angle measure and side length.</i>	3 MG 2.3
Lesson 24	Classifying Quadrilaterals		
Lesson 25	Attributes of Quadrilaterals	<i>Compare quadrilaterals by angle measure, side length, and size.</i>	3 MG 2.3
Lesson 26	Attributes of Quadrilaterals		
Lesson 27	Attributes of Quadrilaterals		
Lesson 28	Cubes, Spheres, Cones	<i>Describe plane and solid figures by their edges, vertices, and faces.</i>	1 MG 2.1 2 MG 2.1
Lesson 29	Identify & Classify Solids	<i>Identify solids and classify by sides, angles, and faces.</i>	3 MG 2.5
Lesson 30	Attributes of Geometric Figures	<i>Describe plane and solid figures by their edges, vertices, and faces.</i>	1 MG 2.1 2 MG 2.1
Lesson 31	Attributes of Solids	<i>Compare solids using number of sides, angles, and faces, and size and angle measure.</i>	3 MG 2.5

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Topic: Measurement, Geometry, Statistics, and Probability – Grade 3

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Lesson 32	Comparing Geometric Figures	Compare plane and solid figures by their attributes.	1 MG 2.2 2 MG 2.1
Assess 2B	Geometry		
Assess 3A	Statistics, Data Analysis, and Probability		
Lesson 33	Certain and Likely	Classify events as certain, likely, unlikely, or improbable.	3 SDAP 1.1
Lesson 34	Unlikely and Improbable		
Lesson 35	Predicting Outcomes	Predict outcomes for simple probability experiments.	3 SDAP 1.4
Lesson 36	Recording Outcomes	Record outcomes for simple probability experiments.	3 SDAP 1.2
Lesson 37	Recording Outcomes		
Lesson 38	Displaying Outcomes	Display outcomes for simple probability experiments.	3 SDAP 1.3
Lesson 39	Displaying Outcomes		
Lesson 40	Read and Interpret a Picture Graph	Create, read, and interpret picture graphs.	1 SDAP 1.2 2 SDAP 1.1, 1.2
Lesson 41	Read and Interpret a Bar Graph	Create, read, and interpret bar graphs.	1 SDAP 1.2 2 SDAP 1.1, 1.2
Lesson 42	Data from a Bar Graph	Answer questions about data displayed on a bar graph.	3 SDAP 1.3
Lesson 43	Data from a Bar Graph		
Lesson 44	Read and Interpret a Tally Chart	Create, read, and interpret tally charts.	1 SDAP 1.2 2 SDAP 1.1, 1.2
Lesson 45	Data from a Tally Chart	Answer questions about data displayed on a tally chart.	3 SDAP 1.3
Lesson 46	Data from a Tally Chart		
Lesson 47	Displaying Data	Display given data in an organized manner.	3 SDAP 1.3
Lesson 48	Displaying Data		
Assess 3B	Statistics, Data Analysis, and Probability		

1.0 Measurement & Geometry

- 1.1 Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects. (1 item on CST)
- 1.3 Find the perimeter of a polygon with integer sides. (3 items on CST)

2.0 Measurement & Geometry

- 2.1 Identify, describe, and classify polygons. (2 items on CST)
- 2.2 Identify attributes of triangles. (2 items on CST)
- 2.3 Identify attributes of quadrilaterals. (2 items on CST)
- 2.4 Identify right angles in geometric figures or in appropriate objects and determine whether other angles are greater or less than a right angle. (2 items every 3 yrs. on CST)
- 2.5 Identify, describe, and classify common three-dimensional geometric objects. (2 items every 3 yrs. on CST)

1.0 Statistics, Data Analysis, & Probability

- 1.1 Identify whether common events are certain, likely, unlikely, or improbable. (1 item on CST)
- 1.2 Record the possible outcomes for a simple event (e.g., tossing a coin) and systematically keep track of the outcomes when the event is repeated many times. (2 items on CST)
- 1.3 Summarize and display the results of probability experiments in a clear and organized way. (2 items on CST)
- 1.4 Use the results of probability experiments to predict future events. (Not tested on CST)

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