

Virginia
Curricular Standards
Mathematics - Grade 4
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Benchmark Number	Benchmark • Instructional Targets	Gourmet Resource	Taught	Tested
Domain: Number and Number Sense				
4.1	<ul style="list-style-type: none"> The student will <ul style="list-style-type: none"> * identify, orally and in writing, the place value for each digit in a whole number expressed through millions; * compare two whole numbers, expressed through millions, using symbols ($>$, $<$, or $=$); and * round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand. 	Appetizers 1 C & D; Main Dish Objective 1 (Number Concepts) Lessons 3 & 4; Applications 3 & 4; Final Tests; Reasonableness Problems; Journal Topics		
4.2	<ul style="list-style-type: none"> The student will identify and represent equivalent fractions and relate fractions to decimals, using concrete objects. 	Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Application 7; Final Tests; Reasonableness Problems; Journal Topics		
4.3	<ul style="list-style-type: none"> The student will compare the numerical value of fractions having denominators of 12 or less. 	Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Application 7; Final Tests; Reasonableness Problems; Journal Topics		
4.4	<ul style="list-style-type: none"> The student will read, write, represent, and identify decimals expressed through thousandths, and round to the nearest tenth and hundredth, using concrete materials, drawings, calculators, and symbols. 	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Application 5; Final Tests; Reasonableness Problems; Journal Topics		

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Domain: Computation and Estimation				
4.5	<ul style="list-style-type: none"> The student will create and solve problems involving addition and subtraction of money amounts using various computational methods, including calculators, paper and pencil, mental computation, and estimation. 	Appetizers 6 B & C; Main Dish Objective 6 (Addition) Lessons 2 & 3; Applications 2 & 3; Final Tests; Reasonableness Problems; Journal Topics		
4.6	<ul style="list-style-type: none"> The student will estimate whole-number sums and differences and describe the method of estimation. Students will refine estimates, using terms such as closer to, between, and a little more than. 	Appetizers 10 A & B; Main Dish Objective 10 (Estimation) Lessons 1 & 2; Applications 1 & 2; Final Tests; Reasonableness Problems; Journal Topics		
4.7	<ul style="list-style-type: none"> The student will add and subtract whole numbers written in vertical and horizontal form, choosing appropriately between paper and pencil methods and calculators. 	Appetizers 6 B; 7 B; Main Dish Objectives 6 (Addition) Lesson 2; Application 2; 7 (Subtraction): Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics		
4.8	<ul style="list-style-type: none"> The student will find the product of two whole numbers when one factor has two digits or less and the other factor has three digits or less, using estimation and paper and pencil. For larger products (a two-digit numeral times a three-digit numeral), estimation and calculators will be used. 	Appetizers 10 B; Main Dish Objective 10 (Estimation) Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics		
4.9	<ul style="list-style-type: none"> The student will estimate and find the quotient of two whole numbers given a one-digit divisor. 	Appetizers 10; Main Dish Objective 10 (Estimation); Applications; Final Tests; Reasonableness Problems; Journal Topics		

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4.10	<ul style="list-style-type: none"> The student will <ul style="list-style-type: none"> * add and subtract with fractions having like and unlike denominators of 12 or less and with decimals through thousandths, using concrete materials and paper and pencil; and * solve problems involving addition and subtraction with fractions having like and unlike denominators of 12 or less and decimals expressed through thousandths. 	Appetizers 6 D; Main Dish Objective 6 (Addition); Lesson 4; Application4; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Measurement				
4.11	<ul style="list-style-type: none"> The student will <ul style="list-style-type: none"> * estimate and measure weight/mass using actual measuring devices and express the results in both metric and U.S. Customary units, including ounces, pounds, grams, and kilograms; * estimate the conversion of ounces and grams and pounds and kilograms, using approximate comparisons (1 ounce is about 28 grams, or 1 gram is about the weight of a paper clip; 1 kilogram is a little more than 2 pounds. * The intent of this standard is for students to make “ballpark” comparisons and not to memorize conversion factors between U.S. and metric units. 	Appetizers 4 C, D, E, & F; Main Dish Objective 4 (Measurement); Lessons 3, 4, 5, & 6; Applications 3, 4, 5, & 6; Final Tests; Reasonableness Problems; Journal Topics		

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4.12	<ul style="list-style-type: none"> The student will <ul style="list-style-type: none"> * estimate and measure weight/mass using actual measuring devices and express the results in both metric and U.S. Customary units, including ounces, pounds, grams, and kilograms; * estimate the conversion of ounces and grams and pounds and kilograms, using approximate comparisons (1 ounce is about 28 grams, or 1 gram is about the weight of a paper clip; 1 kilogram is a little more than 2 pounds. * The intent of this standard is for students to make “ballpark” comparisons and not to memorize conversion factors between U.S. and metric units. 	Appetizers 4 C, D, E, & F; Main Dish Objective 4 (Measurement); Lessons 3, 4, 5, & 6; Applications 3, 4, 5, & 6; Final Tests; Reasonableness Problems; Journal Topics		
4.13	<ul style="list-style-type: none"> The student will <ul style="list-style-type: none"> * estimate and measure liquid volume using actual measuring devices and using metric and U.S. Customary units, including cups, pints, quarts, gallons, millimeters, and liters; and * estimate the conversion of quarts and liters, using approximate comparisons (1 quart is a little less than 1 liter, 1 liter is a little more than 1 quart). * The intent of this standard is for students to make “ballpark” comparisons and not to memorize conversion factors between U.S. and metric units. 	Appetizers 4 E & F; Main Dish Objective 4 (Measurement); Lessons 5 & 6; Applications 5 & 6; Final Tests; Reasonableness Problems; Journal Topics		
4.14	<ul style="list-style-type: none"> The student will identify and describe situations representing the use of perimeter and will use measuring devices to find perimeter in both standard and nonstandard units of measure. 	Appetizers 4 G; Main Dish Objective 4 (Measurement); Lesson 7; Application 7; Final Tests; Reasonableness Problems; Journal Topics		

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Domain: Geometry				
4.15	<ul style="list-style-type: none"> The student will investigate and describe the relationships between and among points, lines, line segments, and rays. 	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
4.16	<ul style="list-style-type: none"> The student will identify and draw representations of points, lines, line segments, rays, and angles, using a straightedge or ruler. 	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application 4; Final Tests; Reasonableness Problems; Journal Topics		
4.17	<ul style="list-style-type: none"> The student will identify lines which illustrate intersection, parallelism, and perpendicularity. 	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application 4; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
Domain: Probability and Statistics				
4.18	<ul style="list-style-type: none"> The student will determine the probability of a given simple event, using concrete materials. 	Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics); Lesson 1; Application 1; Final Tests; Reasonableness Problems; Journal Topics		
4.19	<ul style="list-style-type: none"> The student will collect, organize, and display data in line and bar graphs with scale increments of one or greater than one. 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics); Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics		
Domain: Patterns, Functions, and Algebra				
4.20	<ul style="list-style-type: none"> The student will identify and locate missing whole numbers on a given number line. 	Appetizers 2 C; Main Dish Objective 2 (Mathematical Relations); Lesson 3; Application 3; Final Tests; Reasonableness Problems; Journal Topics		

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4.21	<ul style="list-style-type: none"> The student will extend a given pattern, using concrete materials and tables. 	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations); Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics		
4.22	<ul style="list-style-type: none"> The student will solve problems involving pattern identification and completion of patterns. 	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations); Lesson 2; Application 2; Final Tests; Reasonableness Problems; Journal Topics		