Louisiana
North Louisiana Education Consortium (NLEC) Standards
Mathematics - Grade 4
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Number Relations				
Benchmark Number	***Benchmark • Teaching Targets***	***Gourmet Resource***	***Tested***	***Taught***
1.1 **MA**	*Reads and writes number symbols 0-1,000 through practical applications.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.2 **MA**	*Reads and writes number symbols 1,001-10,000 through practical applications.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.3 **O**	*Reads and writes number symbols 10,001-100,000 through practical applications.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.4 **I**	*Reads and writes number words one hundred one through millions.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.5 **MA**	*Reads ordinal numbers and identifies corresponding positions through 100th.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.6 **MA**	*Sequences numbers by ones 1,001-10,000.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.7 **I**	*Sequences numbers by ones 10,001-100,000.*	**Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1**		
1.8 **MA**	*Sequences odd or even numbers 100-1,000.*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6**		

***I = Introduce**
O = Ongoing
MA = Mastery

Number Relations				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
1.9 **MA**	*Compares two whole numbers between 100-10,000 using the appropriate symbols (>, <, =, =).*	**Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2**		
1.10 **I**	*Compares two whole numbers between 10,001-1,000,000 using the appropriate symbols (>, <, =, =).*	**Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2**		
1.11 **I**	*Compares two numbers sentences by placing the symbol <, >, =, or = between them. (5+3 > 3+2)*			
1.12 **MA**	*Model and identify place value of ones, tens, hundreds, thousands, and ten thousands.*	**Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3**		
1.13 **I**	*Model and identify place value of ones, tens, hundreds, thousands, ten thousands, and hundred thousands.*	**Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3**		
1.14 **O**	*Rounds to the nearest 10, 100, and 1,000.*	**Appetizers 1 D; 10 C; Main Dish Objectives 1 (Number Concepts) Lesson 4; 10 (Estimation) Lesson 3**		
1.15 **I**	*Reads and writes Roman Numerals 1-50.*			
1.16 **I**	*Identifies the Roman Numerals C, D, and M.*			
1.17 **I**	*Understands the three principles involved in Roman Numerals: repetition, addition, and subtraction.*			
1.18 **MA**	*Adds three three-digit numbers, with regrouping.*	**Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1**		
1.19 **I**	*Adds two four- or five-digit numbers without regrouping.*	**Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1**		

Number Relations				
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1.20 **I**	*Adds a column of up to four addends with varying numbers of digits (maximum of three), with regrouping.*	**Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1**		
1.21 **I**	*Adds a column of up to five addends with varying numbers of digits (maximum of five), with regrouping.*	**Appetizers 6 A; Main Dish Objective 6 (Addition) Lesson 1**		
1.22 **MA**	*Subtracts a one-, two-, or three-digit number, with regrouping.*	**Appetizers 7 A; Main Dish Objective 7 (Subtraction) Lesson 1**		
1.23 **MA**	*Subtracts a number of four-digits or less from a four-digit number, with or without regrouping.*	**Appetizers 7 A; Main Dish Objective 7 (Subtraction) Lesson 1**		
1.24 **I**	*Subtracts whole numbers when there are one or more middle zero(es) with regrouping.*	**Appetizers 7 A; Main Dish Objective 7 (Subtraction) Lesson 1**		
1.25 **MA**	*Identifies the parts of a multiplication problem.*	**Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1**		
1.26 **MA**	*Understands the concept of the three properties of multiplication: Order Property, One Property, and Zero Property.*			
1.27 **MA**	*Multiplies two one-digit numbers (factors 0-9).*	**Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1**		
1.28 **MA**	*Multiplies a two-digit number by a one-digit number using concrete objects (no regrouping).*	**Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1**		
1.29 **MA**	*Multiplies a two- or three-digit number by a one-digit number, with and without regrouping.*	**Appetizers 8 B; Main Dish Objective 8 (Multiplication) Lesson 2**		
1.30 **O**	*Identifies the parts of a division problem: dividend, divisor, quotient, and remainder.*	**Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1**		

Number Relations				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
1.31 **I**	*Recognizes that division by zero is not possible.*			
1.32 **I**	*Checks division by multiplication.*			
1.33 **O**	*Performs division in which the quotient contains zero(es).*	**Appetizers 9 B; Main Dish Objective 9 (Division) Lesson 2**		
1.34 **MA**	*Divides a one-, two-, or three-digit number by a one-digit number using concrete objects (no remainder).*	**Appetizers 9 B; Main Dish Objective 9 (Division) Lesson 2**		
1.35	*Divides a one-, two-, or three-digit number by a one-digit number (with or without remainder).*	**Appetizers 9 B; Main Dish Objective 9 (Division) Lesson 2**		
1.36 **I**	*Divides a four-digit number by a one-digit number (with or without remainder).*	**Appetizers 9 B; Main Dish Objective 9 (Division) Lesson 2**		
1.37 **O**	*Demonstrates an ability to estimate with whole numbers.*	**Appetizers 10 B, C, D, & E; Main Dish Objective 10 (Estimation) Lessons 2, 3, 4, & 5**		
1.38 **O**	*Solves appropriate word problems involving whole numbers, using the problem-solving process and hands on strategies.*	**All Appetizers, Practices, Applications, Final Tests, Reasonableness Problems**		
1.39 **O**	*Solves appropriate critical thinking problems involving whole numbers, using the problem-solving process and hands-on strategies.*	**All Appetizers, Practices, Applications, Final Tests, Reasonableness Problems**		
1.40 **MA**	*Identifies the parts of a fraction: numerator and denominator.*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7**		
1.41 **MA**	*Identifies as a fractional part (1/5, 1/6, 1/8, 1/10) of a given figure or set and writes and identifies the symbol.*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7**		
1.42 **MA**	*Identifies and writes fractional numbers from pictorial representations (numerators greater than 1).*			

Number Relations				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
1.43 **I**	*Identifies proper fractions, improper fractions, and mixed numbers.*	**Updates Fall 2002**		
1.44 **I**	*Compares and orders fractions with like denominators (limit to four fractions).*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7**		
1.45 **I**	*Adds and subtracts two fractions or mixed numbers with like denominators (no regrouping and no simplifying).*	**Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4**		
1.46 **O**	*Solves appropriate word problems involving fractions, using the problem-solving process and hands-on strategies.*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Practice 7, Application 7, Final Tests, Reasonableness Problems**		
1.47 **O**	*Solves appropriate critical thinking problems involving fractions, using the problem-solving process and hands-on strategies.*	**Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Practice 7, Application 7, Final Tests, Reasonableness Problems**		
1.48 **I**	*Recognizes place value in decimal numbers through hundred thousandths.*	**Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5**		
1.49 **I**	*Reads and writes decimal numbers through thousandths.*	**Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5**		
1.50 **I**	*Reads and writes word names for decimal numbers (e.g., three tenths, one hundredth).*	**Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5**		
1.51 **I**	*Round decimal numbers to ones, tenths, and hundredths.*			
1.52 **I**	*Adds and subtracts decimal numbers through hundredths.*	**Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3**		

Number Relations				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
1.53 **O**	*Solves appropriate word problems involving decimal numbers, using the problem-solving process and hands-on strategies.*	**Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Practice 3, Application 3, Final Tests, Reasonableness Problems**		
1.54 **O**	*Solves appropriate critical thinking problems involving decimal numbers, using the problem-solving process and hands-on strategies.*	**Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Practice 3, Application 3, Final Tests, Reasonableness Problems**		
Algebra				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
2.1 **O**	*Understands operations of multiplication and division.*	**Appetizers 8; 9; Main Dish Objectives 8 (Multiplication); 9 (Division)**		
2.2 **O**	*Determines the value of a variable in an equation (=, -, x, +, r).*	**Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1**		
Measurement				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
3.1 **MA**	*Identifies the second, minute, and hour as unit measures of time.*	**Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1**		
3.2 **MA**	*Tells time to the minute, past the hour, and the next hour using standard and digital clocks.*	**Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1**		
3.3 **MA**	*Identifies a given time as a.m. or p.m.*	**Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1**		

Measurement				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
3.4 **O**	*Calculates elapsed time to the hour and half hour.*	**Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2**		
3.5 **O**	*Relates time concepts to real-life situations.*	**Appetizers 4 A & B; Main Dish Objective 4 (Measurement) Lessons 1 & 2**		
3.6 **O**	*Reads and interprets data from a calendar.*			
3.7	*Counts change up to $1.00 and explores counting change from larger bills.*	**Appetizers 6 B; Main Dish Objective 6 (Addition) Lesson 2**		
3.8 **I**	*Estimate and compare amounts of money.*	**Appetizers 10 C; Main Dish Objective 10 (Estimation) Lesson 3**		
3.9 **O**	*Estimates and measures length, using nonstandard units.*	**Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4**		
3.10 **O**	*Estimates and measures length in inch, foot, and yard.*	**Appetizers 4 C & D; Main Dish Objective 4 (Measurement) Lessons 3 & 4**		
3.11 **O**	*To measure perimeter and to add to find the perimeter.*	**Appetizers 4 G; 11 E; Main Dish Objectives 4 (Measurement) Lesson 7; 11 (Problem Solving) Lesson 5**		
3.12 **O**	*Estimates, measures, and compares capacity using nonstandard units and gallon, half gallon, quart, pint, cup, and fluid ounces.*	**Appetizers 4 D & E; Main Dish Objective 4 (Measurement) Lessons 4 & 5**		
3.13 **O**	*Estimates, measures, and compares weights in pounds and ounces.*	**Appetizers 4 D & E; Main Dish Objective 4 (Measurement) Lessons 4 & 5**		
3.14 **O**	*Measures temperature in degrees Fahrenheit and Celsius.*	**Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5**		
3.15 **I**	*Measures length in centimeter, decimeter, meter, and kilometer.*	**Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3**		

Measurement				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
3.16 **I**	*Measures area in square centimeters.*	**Appetizers 4 H; Main Dish Objective 4 (Measurement) Lesson 8**		
3.17 **I**	*Measures volume in cubic centimeters.*			
3.18 **I**	*Estimates and measures capacity in milliliters and liters.*	**Appetizers 4 D & F; Main Dish Objective 4 (Measurement) Lessons 4 & 6**		
3.19 **I**	*Estimates and measures mass in kilograms and grams.*	**Appetizers 4 F; Main Dish Objective 4 (Measurement) Lesson 6**		
3.20 **O**	*Solves appropriate word-problems involving measurement, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 4 (Measurement); All Practices, Applications, Final Tests, Reasonableness Problems**		
3.21 **O**	*Solves appropriate critical thinking problems involving measurement, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 4 (Measurement); All Practices, Applications, Final Tests, Reasonableness Problems**		
Geometry				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
4.1	*Identifies space figures: sphere, cylinder, rectangular prism, cone, pyramid, and cube.*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1**		
4.2 **O**	*Identifies polygon plane figures: triangle, quadrilateral, pentagons, hexagons, heptagon, and octagon.*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1**		
4.3 **O**	*Examine space figures to gather data on faces, edges, and vertices*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1**		
4.4 **O**	*Identifies and draws representations of points, lines, line segments, and rays.*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4**		

Geometry				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
4.5 **O**	*Identifies pairs of parallel lines, intersecting lines, perpendicular lines, horizontal and vertical lines.*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4**		
4.6 **I**	*Creates symmetric figures and identifies lines of symmetry.*	**Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2**		
4.7 **I**	*Classifies triangles: right triangle, isosceles triangle, and equilateral triangle.*	**Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4**		
4.9 **I**	*Classifies quadrilaterals as squares, rectangles, parallelograms, or trapezoids.*	**Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1**		
4.10 **I**	*Identifies similar and congruent figures.*	**Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2**		
4.11 **I**	*Explores slides, flips, and turns.*	**Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3**		
4.12 **I**	*Identifies and draws simple closed curves and circles.*			
4.13 **I**	*Explores parts of a circle: center, radius, circumference, chord, and diameter.*			
4.14 **I**	*To use numbered pairs to make coordinate graphs.*	**Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4**		
4.15 **I**	*To solve problems using data from a diagram.*	**Main Dish Objective 5 (Probability/Statistics) Lesson 2**		
4.16 **O**	*Solves appropriate word problems involving geometry, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 3 (Geometry); All Practices, Applications, Final Tests, Reasonableness Problems**		
4.17 **O**	*Solves appropriate critical thinking problems involving geometry, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 3 (Geometry); All Practices, Applications, Final Tests, Reasonableness Problems**		

Data, Discrete Math, and Probability				
Benchmark Number	***Benchmark*** • ***Teaching Targets***	***Gourmet Resource***	***Tested***	***Taught***
5.1 **O**	*Constructs, interprets, uses and describes data from pictographs, bar graphs, circle graphs, and line graphs.*	**Appetizers 5 C; 12 B; Main Dish Objective 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2**		
5.2 **O**	*Interprets information presented in maps, charts, and tables.*	**Appetizers 5 B & C; 12 B; Main Dish Objective 5 (Probability/Statistics) Lessons 2 & 3; 12 (Mathematical Representation) Lesson 2**		
5.3 **O**	*Hands-on experiences utilizing exploration, prediction, recording, interpreting, and explaining data to show results of probability activities.*	**Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1**		
5.4 **O**	*Solves appropriate word problems involving graphs, probability, and statistics, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 5 (Probability/Statistics); All Practices, Applications, Final Tests, Reasonableness Problems**		
5.5 **O**	*Solves appropriate critical thinking problems involving graphs, probability, and statistics, using the problem-solving process and hands-on strategies.*	**Main Dish Objective 5 (Probability/Statistics); All Practices, Applications, Final Tests, Reasonableness Problems**		

Patterns, Relations, and Functions				
Benchmark Number	*Benchmark • Teaching Targets*	*Gourmet Resource*	*Tested*	*Taught*
6.1 **I**	*Explore and discuss odd and even numbers 0-1,000.*	**Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6**		
6.2 **I**	*Recognizes numbers that are evenly divisible by 2, 3, 5, and 10.*			
6.3 **I**	*Uses concrete models and calculators to create, continue, and analyze a wide variety of patterns.*	**Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2**		
6.4 **I**	*Predict, investigate, explore, and model equations and inequalities using a variety of hands-on strategies and tools.*	**Appetizers 11 A, B, C, D, E, & F; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, 4, 5, & 6; 12 (Mathematical Representation) Lessons 1 & 2**		
6.5 **I**	*Hands-on experiences utilizing exploration, prediction, recording, interpreting, and explaining data to show the results of situations and number patterns using a variety of methods, such as tables, graphs, charts, lists, diagrams, etc.*	**Appetizers 5 B & C; 11 A, B, C, D, E, & F; 12 A & B; 13 A, B, & C; Main Dish Objectives 5 (Probability/Statistics) Lessons 2 & 3; 11 (Problem Solving) Lessons 1, 2, 3, 4, 5, & 6; 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lessons 1, 2, & 3**		