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Most Essential Learning Competencies (MELCs)



Grade Level: Grade 4
Subject: Mathematics

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
Q1	1. demonstrates understanding of whole numbers up to 100,000. 2. demonstrates understanding of multiplication and division of whole numbers including money.	1. is able to recognize and represent whole numbers up to 100,000 in various forms and contexts. 2. is able to apply multiplication and division of whole numbers including money in mathematical problems and real-life situations.	visualizes numbers up to 100 000 with emphasis on numbers 10 001–100 000.	Week 1	M4NS-Ia-1.4
			gives the place value and value of a digit in numbers up to 100 000.		M4NS-Ia-10.4
			reads and writes numbers, in symbols and in words, up to hundred thousand and compare them using relation symbols		
			rounds numbers to the nearest thousand and ten thousand.	Week 2	M4NS-Ib-5.2
			orders numbers up to 100 000 in increasing or decreasing order.		M4NS-Ib-13.4
			multiplies numbers up to 3-digit numbers by up to 2-digit numbers without or with regrouping.	Week 3	M4NS-Ic-43.7
			estimates the products of 3- to 4-digit numbers by 2- to 3- digit numbers with reasonable results.		M4NS-Ic-44.2
			multiplies mentally 2-digit by 1-to 2-digit numbers with products up to 200 and explains the strategies used.	Week 4	M4NS-Id-42.3
			solves routine and non-routine problems involving multiplication of whole numbers including money using appropriate problem solving strategies and tools.		M4NS-Id-45.4
			solves multi-step routine and non-routine problems involving multiplication and addition or subtraction using appropriate problem solving strategies and tools.	Week 5	M4NS-Ie-45.5
			divides 3- to 4-digit numbers by 1-to 2-digit numbers without and with remainder.	Week 6	M4NS-If-54.3

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			divides mentally 2- to 4-digit numbers by tens or hundreds or by 1 000 without and with remainder.		
			estimates the quotient of 3- to 4-digit dividends by 1- to 2-digit divisors with reasonable results.	Week 7	M4NS-Ig-55.2
			solves routine and non-routine problems involving division of 3- to 4-digit numbers by 1- to 2-digit numbers including money using appropriate problem solving strategies and tools.	Week 8	M4NS-Ih-56.3
			solves multi-step routine and non-routine problems involving division and any of the other operations of whole numbers including money using appropriate problem solving strategies and tools.		M4NS-Ih-56.4
			performs a series of two or more operations applying Multiplication, Division, Addition, Subtraction (MDAS) correctly.	Week 9	
Q2	1. demonstrates understanding of factors and multiples and addition and subtraction of fractions. 2. demonstrates understanding of improper fractions,	1. is able to apply knowledge of factors and multiples, and addition and subtraction of fractions in mathematical problems and real-life situations. 2. is able to recognize and represent improper	identifies factors of a given number up to 100.	Week 1	M4NS-IIa-64
			identifies the multiples of a given number up to 100.		M4NS-IIa-65
			differentiates prime from composite numbers.		M4NS-IIb-66
			writes a given number as a product of its prime factors.	Week 2	M4NS-IIb-67
			finds the common factors, greatest common factor (GCF), common multiples and least common multiple (LCM) of two numbers using the following methods: listing, prime factorization, and continuous division.		
			solves real-life problems involving GCF and LCM of 2 given numbers.	Week 3	M4NS-IId-70.1
			changes improper fraction to mixed numbers and vice versa.	Week 4	M4NS-IIe-80

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	mixed numbers and decimals	fractions, mixed numbers and decimals	changes fractions to lowest forms.	Week 5	M4NS-IIe-81
			visualizes addition and subtraction of similar and dissimilar fractions.		M4NS-IIf-82.2
			visualizes subtraction of a fraction from a whole number.		
			performs addition and subtraction of similar and dissimilar fractions.	Week 6	M4NS-IIg-83
			solves routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem solving strategies and tools.		M4NS-IIh-87.1
			visualizes decimal numbers using models like blocks, grids, number lines and money to show the relationship to fractions.	Week 7	M4NS-Ili-99
			renames decimal numbers to fractions, and fractions whose denominators are factors of 10 and 100 to decimals.		M4NS-Ili-100
			gives the place value and the value of a digit of a given decimal number through hundredths.	Week 8	M4NS-Ili-101.1
			reads and writes decimal numbers through hundredths.		M4NS-IIj-102.1
			rounds decimal numbers to the nearest whole number and tenth.	Week 9	M4NS-IIj-103.1
			compares and arranges decimal numbers.		M4NS-IIj-104.1
Q3	demonstrates understanding of the concepts of parallel and perpendicular lines, angles, triangles, and quadrilaterals.	is able to describe parallel and perpendicular lines, angles, triangles, and quadrilaterals	describes and draws parallel, intersecting, and perpendicular lines using ruler and set square.	Week 1	
			describes and illustrates different angles (right, acute, and obtuse) using models.	Week 2	M4GE-IIib-14
			describes the attributes/properties of triangles and quadrilaterals using concrete objects or models.		M4GE-IIib-15
			identifies and describes triangles according to sides and angles.	Week 3	M4GE-IIic-16

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			identifies and describes the different kinds of quadrilaterals: square, rectangle, parallelogram, trapezoid, and rhombus.	Week 4	M4GE-IIIc-17
			relates triangles to quadrilaterals		M4GE-IIId-18.1
			relates one quadrilateral to another quadrilateral (e.g. square to rhombus).		M4GE-IIId-18.2
	demonstrates understanding of concepts of continuous and repeating patterns and number sentences.	is able to identify the missing element in a pattern and number sentence.	determines the <u>missing term/s</u> in a sequence of numbers (e.g. odd numbers, even numbers, multiples of a number, factors of a number, etc.) e.g. 3,6,9,___ 4,8,12,16,___ (e.g. odd numbers, even numbers, multiples of a number, factors of a number, etc.) 	Week 5	M4AL-IIIe-5
			finds the missing number in an equation involving properties of operations. (e.g. $(4 + __) + 8 = 4 + (5 + __)$)		M4AL-IIIe-13
	demonstrates understanding of the concept of time, perimeter, area, and volume.	is able to apply the concepts of time, perimeter, area, and volume to mathematical problems and real-life situations.	finds the elapsed time in minutes and seconds.	Week 6	M4ME-III f-11
			estimates the duration of time in minutes.		M4ME-III f-12
			solves problems involving elapsed time.		M4ME-III g-13
			visualizes the perimeter of any given plane figure in different situations.	Week 7	M4ME-III g-48
			measures the perimeter of any given figure using appropriate tools.		M4ME-III h-49
			finds the perimeter of triangles, squares, rectangles, parallelograms, and trapezoids.		M4ME-III i-51
			solves routine and non-routine problems in real-life situations involving perimeter of squares and rectangles, triangles, parallelograms, and trapezoids.	Week 8	M4ME-III i-52
			differentiates perimeter from area.	Week 9	M4ME-III j-53
			converts sq. cm to sq. m and vice versa.		M4ME-III j-54

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Q4			finds the area of irregular figures made up of squares and rectangles using sq. cm and sq. m.	Week 1	M4ME-IVa-55
			finds the area of triangles, parallelograms and trapezoids using sq. cm and sq. m.		M4ME-IVb-58
			solves routine and non-routine problems involving squares, rectangles, triangles, parallelograms, and trapezoids.	Week 2	M4ME-IVc-60
			visualizes the volume of solid figures in different situations using non-standard (e.g. marbles, etc.) and standard units.	Week 3	M4ME-IVd-62
			finds the volume of a rectangular prism using cu. cm and cu. m.		M4ME-IVe-64
			solves routine and non-routine problems involving the volume of a rectangular prism.	Week 4	M4ME-IVf-65
	demonstrates understanding of the concepts of bar graphs and simple experiments.	is able to create and interpret simple representations of data (tables and bar graphs) and describe outcomes in simple experiments.	collects data on two variables using any source.	Week 5	M4SP-IVg-1.4
			organizes data in tabular form and presents them in a single/double horizontal or vertical bar graph.		M4SP-IVg-2.4
			interprets data presented in different kinds of bar graphs (vertical/horizontal, single/double bars).	Week 6	M4SP-IVg-3.4
			solves routine and non-routine problems using data presented in a single or double-bar graph.		M4SP-IVh-4.4
			draws inferences based on data presented in a double-bar graph.	Week 7	M4SP-IVh-5.4
			records favorable outcomes in a simple experiment (e.g. tossing a coin, spinning a wheel, etc.)		M4SP-IVi-9
			expresses the outcome in a simple experiment in words, symbols, tables, or graphs.	Week 8	M4SP-IVi-10
			explains the outcomes in an experiment.		M4SP-IVi-11
			solves routine and non-routine problems involving a simple experiment.	Week 9	M4SP-IVj-12