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Most Essential Learning Competencies (MELCs)



Grade Level: Grade 5
Subject: Mathematics

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
Q1	demonstrates understanding of divisibility, order of operations, factors and multiples, and the four fundamental operations involving fractions	is able to apply divisibility, order of operations, factors and multiples, and the four fundamental operations involving fractions in mathematical problems and real-life situations.	uses divisibility rules for 2, 5, and 10 to find the common factors of numbers.	Week 1	M5NS-Ib-58.1
			uses divisibility rules for 3, 6, and 9 to find common factors.		M5NS-Ib-58.2
			uses divisibility rules for 4, 8, 12, and 11 to find common factors.	Week 2	M5NS-Ib-58.3
			solves routine and non-routine problems involving factors, multiples, and divisibility rules for 2,3,4,5,6,8,9,10,11, and 12.		M5NS-Ic-59
			Performs a series of more than two operations on whole numbers applying Parenthesis, Multiplication, Division, Addition, Subtraction (PMDAS) or Grouping, Multiplication, Division, Addition, Subtraction (GMDAS) correctly.	Week 3	
			finds the common factors, GCF, common multiples and LCM of 2–4 numbers using continuous division.	Week 4	
			solves real-life problems involving GCF and LCM of 2-3 given numbers.		M5NS-Ie-70.2
			adds and subtracts fractions and mixed fractions without and with regrouping.	Week 5	M5NS-Ie-84
			solves routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem solving strategies and tools.		M5NS-If-87.2
			visualizes multiplication of fractions using models.	Week 6	M5NS-Ig-89
			multiplies a fraction and a whole number and another fraction.		M5NS-Ig-90.1

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			multiplies mentally proper fractions with denominators up to 10.	Week 7	M5NS-Ig-91
			solves routine or non-routine problems involving multiplication without or with addition or subtraction of fractions and whole numbers using appropriate problem solving strategies and tools.		M5NS-Ih-92.1
			shows that multiplying a fraction by its reciprocal is equal to 1.		M5NS-Ih-94
			visualizes division of fractions.	Week 8	M5NS-li-95
			divides simple fractions and whole numbers by a fraction and vice versa		M5NS-li-96.1
			solves routine or non-routine problems involving division without or with any of the other operations of fractions and whole numbers using appropriate problem solving strategies and tools .	Week 9	M5NS-lj-97.1
Q2	1. demonstrates understanding of decimals.	1. is able to recognize and represent decimals in various forms and contexts.	gives the place value and the value of a digit of a given decimal number through ten thousandths.	Week 1	M5NS-IIa-101.2
			reads and writes decimal numbers through ten thousandths.		M5NS-IIa-102.2
			rounds decimal numbers to the nearest hundredth and thousandth.		M5NS-IIa-103.2
	2. demonstrates understanding of the four fundamental operations involving decimals and ratio and proportion.	2. is able to apply the four fundamental operations involving decimals and ratio and proportion in	compares and arranges decimal numbers.	Week 2	M5NS-IIb-104.2
			adds and subtracts decimal numbers through thousandths without and with regrouping.		M5NS-IIb-106.1
			solves routine or non-routine problems involving addition and subtraction of decimal numbers including money using appropriate problem solving strategies and tools.	Week 3	M5NS-Iic-108.1
			multiplies decimals up to 2 decimal places by 1- to 2-digit whole numbers.	Week 4	M5NS-IId-111.1

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		mathematical problems and real-life situations.	multiplies decimals with factors up to 2 decimal places.	Week 5	M5NS-IIId-111.2
			estimates the products of decimal numbers with reasonable results.		M5NS-IIe-112
			solves routine and non-routine problems involving multiplication without or with addition or subtraction of decimals and whole numbers including money using appropriate problem solving strategies and tools.		M5NS-IIe-113.1
			divides decimals with up to 2 decimal places.	Week 6	M5NS-IIf-116.1
			divides whole numbers with quotients in decimal form.		M5NS-IIf-116.2
			solves routine and non-routine problems involving division without or with any of the other operations of decimals and whole numbers including money using appropriate problem solving strategies and tools.	Week 7	M5NS-IIg-120.1
			visualizes the ratio of 2 given numbers.		M5NS-IIh-122
			identifies and writes equivalent ratios.		M5NS-IIi-124
			expresses ratios in their simplest forms.	Week 8	M5NS-IIi-125
			finds the missing term in a pair of equivalent ratios.		M5NS-IIi-126
			defines and describes a proportion.		M5NS-IIj-127
			recognizes when two quantities are in direct proportion.		M5NS-IIj-128
Q3	demonstrates understanding of percent.	is able to apply percent in mathematical problems and real-life situations	visualizes percent and its relationship to fractions, ratios, and decimal numbers using models.	Week 1	M5NS-IIIa-136
			defines percentage, rate or percent, and base.		M5NS-IIIa-137
			identifies the base, percentage, and rate in a problem.		M5NS-IIIa-138
			finds the percentage in a given problem.	Week 2	M5NS-IIIb-139

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			solves routine and non-routine problems involving percentage using appropriate strategies and tools.		M5NS-IIIb-140
	demonstrates understanding of polygons, circles, and solid figures.	is able to construct and describe polygons, circles, and solid figures.	visualizes, names, describes and draws polygons with 5 or more sides.	Week 3	M5GE-IIIc-19
			describes and compares properties of polygons (regular and irregular polygons).		M5GE-IIIc-20
			visualizes congruent polygons.		M5GE-IIId-22
			identifies the terms related to a circle.	Week 4	M5GE-IIId-23.2
			draws circles with different radii using a compass.		M5GE-IIId-24
			visualizes and describes solid figures.	Week 5	M5GE-IIId-25
			makes models of different solid figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures.		M5GE-IIId-26
	demonstrates understanding of the concept of sequence and solving simple equations.	1. is able to apply the knowledge of sequence in various situations.	formulates the rule in finding the next term in a sequence. e.g. 1, 3, 7, 15, (15 x 2+1) Possible answers: (x 2 + 1) (+2, +4, +8, +16)	Week 6	M5AL-IIIf-6
		2. is able to use different problem solving strategies	uses different strategies (looking for a pattern, working backwards, etc.) to solve for the unknown in simple equations involving one or more operations on whole numbers and fractions. e.g. $3 \times _ + 1 = 10$ (the unknown is solved by working backwards)		M5AL-IIIf-14
	demonstrates understanding of time and circumference.	is able to apply knowledge of time and circumference in mathematical problems and real-life situations.	measures time using a 12-hour and a 24-hour clock.	Week 7	M5ME-IIIf-14
			calculates time in the different world time zones in relation to the Philippines.		M5ME-IIIf-15
			solves problems involving time.		M5ME-IIIf-16
			visualizes circumference of a circle.	Week 8	M5ME-IIIf-67

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Q4	demonstrates understanding of area, volume and temperature.	is able to apply knowledge of area, volume and temperature in mathematical problems and real-life situations.	measures circumference of a circle using appropriate tools.	Week 9	M5ME-IIIh-68
			finds the circumference of a circle.		M5ME-IIIi-70
			solves routine and non-routine problems involving circumference of a circle.		M5ME-IIIj-71
			finds the area of a given circle.	Week 1	M5ME-IVa-74
			solves routine and non-routine problems involving the area of a circle.		M5ME-IVb-75
			visualizes the volume of a cube and rectangular prism.	Week 2	M5ME-IVc-77
			names the appropriate unit of measure used for measuring the volume of a cube and a rectangle prism.		M5ME-IVc-78
			converts cu. cm to cu. m and vice versa; cu.cm to L and vice versa.		M5ME-IVd-80
			finds the volume of a given cube and rectangular prism using cu. cm and cu. m.	Week 3	M5ME-IVd-81
			estimates and uses appropriate units of measure for volume.		M5ME-IVd-82
			solves routine and non-routine problems involving volume of a cube and rectangular prism in real-life situations using appropriate strategies and tools.	Week 4	M5ME-IVe-83
			reads and measures temperature using thermometer (alcohol and/or digital) in degree Celsius.	Week 5	M5ME-IVf-85
			solves routine and non-routine problems involving temperature in real-life situations.		M5ME-IVf-87
	demonstrates understanding of line graphs and	is able to create and interpret representations of data	organizes data in tabular form and presents them in a line graph.	Week 6	M5SP-IVg-2.5
			interprets data presented in different kinds of line graphs (single to double-line graph).		M5SP-IVh-3.5

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	experimental probability.	(tables and line graphs) and apply experimental probability in mathematical problems and real-life situations.	solves routine and non-routine problems using data presented in a line graph.	Week 7	M5SP-IVh-4.5
			draws inferences based on data presented in a line graph.		M5SP-IVh-5.5
			describes experimental probability.	Week 8	M5SP-IVi-14
			performs an experimental probability and records result by listing.		M5SP-IVi-15
			analyzes data obtained from chance using experiments involving letter cards (A to Z) and number cards (0 to 20).	Week 9	M5SP-IVi-16
			solves routine and non-routine problems involving experimental probability.		M5SP-IVj-17

Grade Level: Grade 6
Subject: Mathematics

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
Q1	demonstrates understanding of the four fundamental operations involving fractions and decimals.	is able to apply the four fundamental operations involving fractions and decimals in mathematical problems and real-life situations.	adds and subtracts simple fractions and mixed numbers without or with regrouping.	Week 1	M6NS-Ia-86
			solves routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem solving strategies and tools.		M6NS-Ia-87.3
			multiplies simple fractions and mixed fractions.	Week 2	M6NS-Ib-90.2
			solves routine or non-routine problems involving multiplication without or with addition or subtraction of fractions and mixed fractions using appropriate problem solving strategies and tools.		M6NS-Ib-92.2
			divides simple fractions and mixed fractions.	Week 3	M6NS-Ic-96.2
			solves routine or non-routine problems involving division without or with any of the		M6NS-Ic-97.2