



Missouri Alignment Guide

MO Domains	Clusters & Standards	Bridges Units	Number Corner	CCSS Correlations
Number Sense & Operations in Base Ten	4.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic with numbers up to one million.			
	4.NBT.A.1 Round multi-digit whole numbers to any place.	4	Oct, Nov	4.NBT.3
	4.NBT.A.2 Read, write and identify multi-digit whole numbers up to one million using number names, base ten numerals, and expanded form.	2, 4	Sep-Dec	4.NBT.2
	4.NBT.A.3 Compare two multi-digit numbers using the symbols $>$, $=$, or $<$, and justify the solution.	2, 4	Sep-Dec	4.NBT.2
	4.NBT.A.4 Understand that in a multi-digit whole number, a digit represents 10 times what it would represent in the place to its right.	2, 4	Sep-Nov, Apr	4.NBT.1
	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.	2, 4, 5, 6	Nov, Dec	4.NBT.4
	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.	1, 2, 5, 6, 7	Sep, Oct, Jan	4.NBT.5
4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.	2, 6	Jan, Apr	4.NBT.6	



MO Domains	Clusters & Standards	Bridges Units	Number Corner	CCSS Correlations
Number Sense & Operations in Fractions	4.NF.A Extend understanding of fraction equivalence and ordering			
	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent.	3, 6, 7	Sep, Nov, Jan, May	4.NF.1
	4.NF.A.2 Recognize and generate equivalent fractions.	3, 6, 7	Sep, Nov, Jan, May	4.NF.1
	4.NF.A.3 Compare two fractions using the symbols $>$, $=$, or $<$, and justify the solution.	3, 7	Oct, Jan, Apr	4.NF.2
	4.NF.B Extend understanding of operations on whole numbers to fraction operations.			
	4.NF.B.4 Understand addition and subtraction of fractions as joining/ composing and separating/ decomposing parts referring to the same whole.	3	Sep, Nov, Jan-Mar	4.NF.3
	4.NF.B.5 Decompose a fraction into a sum of fractions with the same denominator and record each decomposition with an equation and justification.	3	Nov, Jan, Feb	4.NF.3
	4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.	3, 6	Dec-Mar, May	4.NF.3
	4.NF.B.7 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	3	Sep, Jan-May	4.NF.4
	4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.	3	Sep, Jan-May	4.NF.4
	4.NF.C Understand decimal notation for fractions, and compare decimal fractions			
	4.NF.C.9 Use decimal notation for fractions with denominators of 10 or 100.	3, 6, 7	Oct, Feb, May	4.NF.6
	4.NF.C.10 Understand that fractions and decimals are equivalent representations of the same quantity.	3, 7	Oct, Feb, Mar, May	See note below
	4.NF.C.11 Read, write and identify decimals to the hundredths place using number names, base ten numerals, and expanded form.	3, 7	Oct, Feb, Mar, May	See note below
	4.NF.C.12 Compare two decimals to the hundredths place using the symbols $>$, $=$, or $<$, and justify the solution.	3, 7	Feb, Mar, May	4.NF.7

MO Domains	Clusters & Standards	Bridges Units	Number Corner	CCSS Correlations
Relationship & Algebraic Thinking	4.RA.A Use the four operations with whole numbers to solve problems.			
	4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.	1, 2, 6	Sep, Nov, Jan, Apr	4.OA.1, 4.OA.2
	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.	1, 2, 4, 6, 7	Oct, Nov, Jan, Feb	4.OA.3
	4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.	1, 2, 4, 6, 7	Oct, Nov, Jan, Feb	4.OA.3
	4.RA.B Work with factors and multiples.			
	4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given number.	1, 2, 6	Sep-Dec	4.OA.4
	4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.	1, 2, 6	Sep-Dec	4.OA.4
	4.RA.C Generate and analyze patterns.			
	4.RA.C.6 Generate a number pattern that follows a given rule.	1, 2	Sep, Nov, Jan, Mar, May	4.OA.5
	4.RA.C.7 Use words or mathematical symbols to express a rule for a given pattern.	1, 2	Sep, Nov, Jan, Mar, May	4.OA.5

MO Domains	Clusters & Standards	Bridges Units	Number Corner	CCSS Correlations
Geometry & Measurement	4.GM.A Classify 2-dimensional shapes by properties of their lines and angles.			
	4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines, and parallel lines.	5, 8	Dec, Feb, May	4.G.1
	4.GM.A.2 Classify two-dimensional shapes by their sides and/or angles.	5, 8	Dec, Feb, Apr, May	4.G.2
	4.GM.A.3 Construct lines of symmetry for a two-dimensional figure.	5, 8	Dec, Apr, May	4.G.3
	4.GM.B Understand the concept of angle and measure angles			
	4.GM.B.4 Identify and estimate angles and their measure.	5, 8	Feb	4.MD.5
	4.GM.B.5 Draw and measure angles in whole-number degrees using a protractor.	5, 8	Feb	4.MD.6
	4.GM.C Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.			
	4.GM.C.6 Know relative sizes of measurement units within one system of units. a) Convert measurements in a larger unit in terms of a smaller unit.	1, 2, 4, 6, 8	Sep, Nov, Apr, May	4.MD.1
	4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects, and money.	1, 2, 4, 6, 7, 8	Sep, Nov, Dec, Jan, Apr, May	4.MD.2
4.GM.C.8 Apply the area and perimeter formulas for rectangles to solve problems.	2, 5, 6, 7, 8	Dec, Jan, Apr	4.MD.3	
Data & Statistics	4.DS.A Represent and analyze data.			
	4.DS.A.1 Create a frequency table and/or line plot to display measurement data.	4, 6, 8	Apr	4.MD.4
	4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display.	4, 6, 8	Apr	4.MD.4
	4.DS.A.3 Analyze the data in a frequency table, line plot, bar graph, or picture graph.	4, 6, 8	Sep-May	See note below

Notes:

4.NF.C.10 Understand that fractions and decimals are equivalent representations of the same quantity and **4.NF.C.11** Read, write, and identify decimals to the hundredths place using number names, base ten numerals, and expanded form. These standards are addressed in Units 3 & 7 and October, February, March and May Number Corner workouts.

4.DS.A.3 Analyze the data in a frequency table, line plot, bar graph, or picture graph. Analyzing data is part of the Calendar Collector workout in Number Corner each month. Sessions in Units 4, 6, & 8 also address this Missouri standard.