

Number Sets – Single Numbers

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03AT1.1.1a Round a two-digit number to the nearest ten		M05AT1.1.5a Round a decimal from the tenths place to the nearest whole number				
	M04AT1.1.1a Model relationships between adjacent digits in a multi-digit whole number	M05AT1.1.1a Identify place value in a 3-digit number using models				
M03AT1.1.4a Order 3 numbers under 10	M04AT1.1.3a Compare to determine if a value is greater than, less than, or equal to another value	M05AT1.1.4a Compare two numbers up to the hundredths place				
			M06AN3.1.1a Identify a specific integer in a real-world context		M08BE1.1.2a Identify the meaning of an exponent (limited to exponents of 2 and 3)	
	M04AF3.1.2a Identify equivalent values in decimal or fraction form (limited to denominator of 10)		M06AR1.1.2a Identify the ratio that matches a given statement and/or representation			

Fractions – Single Numbers

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03CG1.1.3a Partition a rectangle into parts with equal areas						
M03AF1.1.1a Identify the unit fraction or other proper fraction (denominators = 2, 3, 4, 6) that matches the representation	M04AF.2.1.2a Decompose a proper fraction into multiple copies of a unit fraction (denominators limited to 3, 4, or 8)					
M03AF1.1.3b Identify equivalent fractions using representations	M04AF1.1.1a Identify equivalent fractions					
	M04AF1.1.2a Compare two fractions with like denominators					
	M04AF.2.1.1a Add or subtract fractions with common denominators (denominators limited to 2, 3, 4, or 8)		M06AR1.1.5a Calculate a percent of a quantity as a rate per 100		M08AN1.1.2a Convert a fraction to a decimal up to the hundredths place	CC.2.1.HSF2a Convert between fractions and decimals in a real-world problem
			M06AR1.1.4a Solve a 1-step real-world problem given the unit rate	M07AR1.1.1a Find the unit rate in a real-world problem		

Operations with 2 Numbers

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03AT1.1.2a Demonstrate understanding of addition with small sets	M04AT2.1.1a Add or subtract whole numbers with sums and differences <1000	M05AT2.1.3a Add or subtract decimals to the tenths place	M06AN2.1.1a Solve a problem using up to 3-digit whole numbers and any of the four operations	M07AN1.1.1a Solve a 1-step addition or subtraction problem with fractions, decimals, or positive/negative integers	This is intentionally left blank because the grade level standards no longer focus on performing operation on only two digits for the purpose of understanding the operation. Operations are applied through the use of expression, equations, functions, data, and other grade level content.	
M03AT1.1.2b Demonstrate understanding subtraction with small sets						
	M04AT2.1.4a Assess the plausibility of results from addition or subtraction			M07BE2.3.1a Identify a reasonable solution in the context of a problem using the four basic operations and numbers under 20		
M03BO1.1.1a Use a model in a multiplication situation	M04AT2.1.2a Demonstrate understanding of multiplication or division with small sets	M05AT2.1.1a Multiply single-digit whole numbers		M07AN1.1.3a Solve a multiplication or division problem with positive/negative rational numbers		
		M05.AF.2.1.2.a Multiply a fraction by a whole number less than 10				

Application of Operations with 2 Numbers

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03BO3.1.1a Solve a 1-step real-world problem involving numbers under 10 using addition or subtraction	M04BO1.1.3a Solve a real-world problem with one or more steps using addition or subtraction	M05AF1.1.1a Add or subtract proper fractions with common denominators to solve a real-world problem			This is intentionally left blank because the grade level standards no longer focus on performing operation on only two digits for the purpose of understanding the operation. Operations are applied through the use of expression, equations, functions, data, and other grade level content.	
	M04BO1.1.2a Use a model to solve a real-world multiplication problem			M07AR1.1.6a Use percentages to solve a real-world problem		
		M05AT2.1.2a Illustrate the concept of division using fair and equal shares				

Building Data Displays

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03DM2.1.1a Add information to a pictograph, line plot, or bar graph	M04DM2.1.1a Organize data into a pictograph, line plot, or bar graph					CC.2.2.HSC1a Determine the missing coordinates in a table of values containing at least 2 complete ordered pairs
		M05CG1.1.1a Identify an ordered pair (x,y) in quadrant I	M06AN3.2.3a Identify points in all four quadrants of the coordinate plane	M07AR1.1.3a Represent a proportional relationship on a line graph	M08BE3.1.5a Graph a linear equation	
		M05CG1.1.2a Graph an ordered pair (x,y) in quadrant I			M08BE2.1.3a Identify the slope and y-intercept of a line on a graph	
			M06AN3.1.3a Locate positive and negative numbers on the number line	M07AN1.1.2a Identify the difference between two numbers on the number line	M08AN1.1.5a Locate a non-terminating decimal at its approximate location on the number line	
			M06AN3.1.2a Identify the opposite of a number on the number line			

Using Data Displays

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
	M04DM2.1.2a Answer a question about data in a pictograph, line plot, or bar graph	M05DM2.1.2a Interpret one set of data given in 2 different displays	M06DS1.1.3a Compare points in a line plot, histogram, or on a number line	M07DS2.1.1a Compare two sets of data within a single pictograph, line plot, or bar graph	M08BE2.1.1a Compare two proportional relationships shown in graph form	
				M07AR1.1.5a Interpret an ordered pair in a real-world problem	M08BF2.1.1a Determine the missing value in a graph showing a real-world linear relationship	CC.2.2.HSC5b Interpret a graphical representation of a linear model in a real-world problem
					M08BF2.1.2a Describe the relationship between two variables with a linear relationship displayed in graph form	CC.2.2.HSC3a Describe the linear relationship between two variables displayed in a table of values
					M08DS1.1.2a Identify a statement that describes the relationship between variables displayed in a scatterplot	
					M08DS1.2.1a Answer a question using data from a two-way table	CC.2.4.HSB5a Draw a conclusion about data presented in a two-way table representing a real-world problem

Number Patterns

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03BO3.1.5a Identify a mathematical pattern in a real-world problem				This is intentionally left blank because the grade level standards shift from numerical patterns to expressions, equations, and functions.		
M03BO3.1.5b Identify the 3 next terms in a mathematical pattern (increasing by 2, 5 or 10)	M04BO3.1.1a Extend a pattern when shown a model and told the rule	M05BO2.1.1a Identify and extend numeric patterns	M06AN2.2.1a Identify multiples for numbers 5, 10, 25, or 100			
		M05BO2.1.1b Generate a pattern that follows 1 or more rules provided				
	M04BO2.1.1a Identify the multiples of 5 to 100 and 10 to 100 (e.g., count money)	M05AT1.1.2a Identify a pattern and change in place value when a number up to 99 is multiplied by powers of 10				

Expressions, Equations, and Functions						
Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
This is intentionally left blank because the grade level standards establish these early concepts/procedures through the idea of numerical patterns.						CC.2.2.HSD7a Translate a real-world problem into a one-variable equation
			M06BE2.1.2a Select an algebraic expression involving addition or subtraction of whole numbers to solve a 1-step real-world problem	M07BE2.2.1a Select an algebraic expression (equations or inequalities) using addition or subtraction of fractions, decimals, or positive/negative integers to solve a 1-step real-world problem	M08BE3.1.1a Select an algebraic equation using addition or subtraction to solve a 2-step real-world problem with one variable	CC.2.2.HSD1a Select an algebraic expression using any of the four operations and solve a real-world problem
			M06BE2.1.3a Use a 1-step algebraic expression to solve a real-world problem involving addition or subtraction of whole numbers		M08BE3.1.2a Solve a 2-step real-world problem using an algebraic equation involving addition or subtraction and one variable	CC.2.2.HSD8a Solve a linear equation to find a missing attribute when determining area or volume
						CC.2.2.HSD9a Order a given sequence of steps to solve an equation
			M06BE3.1.1a Identify the relationship between two variables in an equation			CC.2.4.HSB3a Identify the relationship between two or more variables in a function
						CC.2.2.HSC5a Interpret the effect of a change in one variable on the other variable using graphs or tables

Geometric Figures

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03CG1.1.1a Identify similarities between two polygons	M04CG1.1.2a Classify two-dimensional shapes based on attributes M04CG1.1.3a Recognize a line of symmetry in a two-dimensional figure	M05CG2.1.1a Identify a two-dimensional figure with specific attributes	M06CG1.1.5a Classify three-dimensional figures	M07CG1.1.4a Identify a three-dimensional figure with specific attributes	M08CG1.1.1a Identify a rotation, reflection, or translation of a two- or three-dimensional figure	CC.2.3.HSA13a Match corresponding two-dimensional and three-dimensional representations
M03DM3.1.2a Measure the area of a rectangle by counting squares, tiling, or addition	M04DM1.1.3a Identify the area or perimeter of a rectangle	M05DM3.1.2a Find volume by using filling or multiplication	M06CG1.1.3a Solve a real-world problem involving volume using unit cubes or multiplication	M07CG2.2.2a Find the area or volume of a two- or three-dimensional object given the formula	M08CG.3.1.1a Complete the formula for volume to solve a real-world or mathematical problem	CC.2.3.HSA14a Compare the area of two objects with one equivalent attribute
M03DM4.1.1a Find the perimeter of a rectangle			M06CG1.1.1a Find the area of a quadrilateral given the dimensions			
				M07CG1.1.2a Identify the properties of a right triangle	M08CG2.1.2a Apply the Pythagorean theorem to determine length/distance in a real-world problem	
				M07CG2.1.1a Use angle relationships to find the missing angle	M08CG1.1.2a Identify figures that are congruent/similar	

Measurement

Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
M03DM1.1.1a Tell time to the hour or half hour on a clock						
M03DM1.2.1a Identify and use the appropriate measurement tool based on the situation	M04DM1.1.1a Identify the appropriate unit of measurement in a real-world problem	M05DM1.1.1a Use a conversion table to identify equivalent standard measurements of length or mass		M07CG1.1.1a Solve a 1-step real-world problem related to scaling		CC.2.1.HSF3a Identify and interpret scale in a real-world problem
M03DM1.2.3a Use a ruler and measure to the nearest inch (exact measurement)						
M03DM1.3.1a Count money using coins or one-dollar bills						
						CC.2.1.HSF4a Determine the necessary units and solve a real-world problem
			M06DS1.1.2a Identify measures of central tendency (mean, median, mode)	M07DS2.1.1b Use measures of central tendency to interpret data, including overall patterns in the data		CC.2.4.HSB2a Interpret the means and/or medians of two sets of data
				M07DS3.1.1a Identify the probability of events occurring as possible/impossible or likely/unlikely		CC.2.4.HSB7a Identify the probability of events based on real-world examples of conditional probability