


 5

Math 5 Standard Components
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Component	Component Descriptions		
5NS 1.1.0	Estimate, round, and manipulate very small and very large numbers (thousandths – millions).	1,2 ^w	1
5NS 1.2.1*	Interpret percents as part of a hundred.	7 ^w	
5NS 1.2.2*	Find decimal and percent equivalents for common fractions.	4, 5, 6 ^w , 8,9	5
5NS 1.2.3*	Compute a given percent of a whole number.	3	
5NS 1.3.0	Understand exponents as repeated multiplication.	10	1
5NS 1.4.1*	Determine the prime factors of all numbers through 50.	14, 15,16	
5NS 1.4.2*	Write the numbers as a product of their prime factors (prime factorization).	11,12,13	3
5NS 1.5.1*	Identify and represent decimals on a number line.	18 ^g	
5NS 1.5.2*	Identify and represent fractions on a number line.	19 ^g	
5NS 1.5.3*	Identify and represent mixed numbers on a number line.		2
5NS 1.5.4*	Identify and represent positive and negative integers on a number line.	17 ^g	
5NS 2.1.1*	Add / Subtract with decimals and verify the reasonableness of the answer.	23 ^w , 26 ^w	
5NS 2.1.2*	Multiply with decimals and verify the reasonableness of results.	20, 22 ^w ,24,25 ^w ,27	
5NS 2.1.3*	Divide with decimals and verify the reasonableness of results.	21 ^w	7
5NS 2.1.4*	Add with integers and verify the reasonableness of results.		
5NS 2.1.5*	Subtract with positive integers and verify reasonableness of results.		
5NS 2.2.1*	Demonstrate proficiency with division of positive decimals.	28	
5NS 2.2.2*	Demonstrate proficiency with long division with multi-digit divisors.	29, 30 ^w , 31	3
5NS 2.3.1*	Solve simple problems involving addition & subtraction of fractions.	32 ^w , 34 ^w	
5NS 2.3.2*	Solve simple problems involving addition & subtraction of mixed numbers.	33, 36 ^w , 37 ^w	5

Math5 Standard Components

5NS 2.4.1	Understand the concept of multiplication fractions.	40 ^w	1
5NS 2.4.2	Understand the concept division of fractions.	38, 39	
5NS 2.5.1	Compute and perform simple multiplication of fractions and apply these procedures to solving problems.	41,42	1
5NS 2.5.2	Compute and perform simple division of fractions and apply these procedures to solving problems.		
5AF 1.1.0	Use information taken from a graph or equation to answer questions about a problem situation.	43 ^w , 44 ^{wg}	1
5AF 1.2.1*	Write algebraic expressions in one variable.	48, 50 ^w ,53 ^w	6
5AF 1.2.2*	Evaluate algebraic expressions in one variable.	45, 46, 47, 49,52	
5AF 1.2.3*	Write equations with one variable.	51 ^w	
5AF 1.3.0	Know and use the distributive property in equations and expressions with variables.	54,55,56	1
5AF 1.4.0*	Identify and graph ordered pairs in the four quadrants of the coordinate plane.	57 ^g , 58 ^g , 59 ^{wg} , 60 ^g , 61 ^g ,62 ^g	4
5AF 1.5.1*	Solve problems involving linear functions with integer values.	67	5
5AF 1.5.2*	Write the equation (w/2 variables).	65, 66	
5AF 1.5.3*	Graph the resulting ordered pairs of integers on a grid (from a linear equation).	63,64	
5MG 1.1.1*	Review formula of a square and relationship w/a triangle.		2½
5MG 1.1.2*	Area of a triangle (related to rectangle)	70,72	
5MG 1.1.3*	Area of a parallelogram (related to a triangle and rectangle)	68,69,71	
5MG 1.2.1*	Construct a cubes and rectangular boxes from two-dimensional patterns.		½
5MG 1.2.2*	Use these patterns (from 5MG 1.2.1) to compute the surface area for these objects.	73	
5MG 1.3.0*	Understand the concept of volume and use the appropriate units in common measuring systems (i.e., feet cubed).	74, 75, 76 ^w ,77	3
5MG 1.4.0	Differentiate between, and use appropriate units of measure for, two- and three- dimensional objects (i.e., find the perimeter, area, volume).	78 ^w , 79	1
5MG 2.1.1*	Measure and draw angles, rectangles and triangles by using appropriate tools (straight edge, ruler, compass, and protractor).	80, 82, 83	3
5MG 2.1.2*	Measure and identify perpendicular and parallel lines by using appropriate tools (straight edge, ruler, compass, and protractor).	81	

Math5 Standard Components

5MG 2.2.1*	Know that the sum of the angles of any triangle is 180° .	85 ^w , 86 ^w , 87 ^w , 88	4
5MG 2.2.2*	Know that the sum of the angles of any quadrilateral is 360° .	84,89 ^w	
5MG 2.3.0	Visualize and draw two-dimensional views of three-dimensional objects made from rectangular solids.	90 ^g	1
5PS 1.1.0	Know the concepts of mean, median, and mode, compute and compare simple examples to show that they may differ.	91	1/3
5PS 1.2.0	Organize and display single-variable data in appropriate graphs and representations (e.g., histograms, circle graphs) and explain which types of graphs are appropriate for various data sets.	92 ^g	1/3
5PS 1.3.0	Use fractions and percentages to compare data sets of different sizes.	93 ^{wg}	1/3
5PS 1.4.0*	Identify ordered pairs of data from a graph and interpret the meaning of the data in terms of the situation depicted by the graph.	94 ^{wg} , 95 ^g	2½
5PS 1.5.0*	Know how to write ordered pairs correctly: for example (x, y).	96 ^g	½
5MR 1.1.0	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.		E
5MR 1.2.0	Determine when and how to break a problem into simpler parts.		E
5PS 2.1.0	Use estimation to verify the reasonableness of calculated results.		E
5PS 2.2.0	Apply strategies and results from simpler problems to more complex problems.		E
5PS 2.3.0	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.		E
5PS 2.4.0	Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.		E
5MR 2.5.0	Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.		E
5MR 2.6.0	Make precise calculations and check the validity of the results from the context of the problem.		E
5MR 3.1.0	Evaluate the reasonableness of the solution in the context of the original situation.		E
5MR 3.2.0	Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.		E
5MR 3.3.0	Develop generalizations of the results obtained and apply them in other circumstances.		E