

State Analysis

Benchmark Exams Teacher Tools

Curriculum

Admin





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## CreateTest - tmp

Choose specific standards:				
	Numbe	r Sense		
	fi	.0 - Students compute with very large and very small numbers, positive integers, decimals, and ractions and understand the relationship between decimals, fractions, and percents. They understand ne relative magnitudes of numbers:		
3		1.1 - Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.		
2		1.2 - Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.		
		1.3 - Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication.		
2		1.4 - Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor (e.g., $24 = 2 * 2 * 2 * 3 = 2 * 3 * 3$ ).		
2		1.5 - Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.		
		.0 - Students perform calculations and solve problems involving addition, subtraction, and simple nultiplication and division of fractions and decimals:		
		2.1 - Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.		
3		2.2 - Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.		
		2.3 - Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.		
2		2.4 - Understand the concept of multiplication and division of fractions.		
=		2.5 - Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.		
	Algebra	a and Functions		
		.0 - Students use variables in simple expressions, compute the value of the expression for specific alues of the variable, and plot and interpret the results:		
2		1.1 - Use information taken from a graph or equation to answer questions about a problem situation.		
		1.2 - Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution.		
2		1.3 - Know and use the distributive property in equations and expressions with variables.		
		1.4 - Identify and graph ordered pairs in the four quadrants of the coordinate plane.		
		1.5 - Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.		
	Measurement and Geometry			

	1.0 - Students understand and compute the volumes and areas of simple objects:	
	1.1 - Derive and use the formula for the area of a triangle and of a parallelogram by conformula for the area of a rectangle (i.e., two of the same triangles make a parallelogram parallelogram is compared with a rectangle of the same area by cutting and pasting a riparallelogram).	with twice the area; a
2	1.2 - Construct a cube and rectangular box from two-dimensional patterns and use thes the surface area for these objects.	e patterns to compute
	1.3 - Understand the concept of volume and use the appropriate units in common meas cubic centimeter [cm <sup>3</sup> ], cubic meter [m <sup>3</sup> ], cubic inch [in <sup>3</sup> ], cubic yard [yd <sup>3</sup> ]) to compute rectangular solids.	
2	1.4 - Differentiate between, and use appropriate units of measures for, two- and three-d (i.e., find the perimeter, area, volume).	imensional objects
	2.0 - Students identify, describe, and classify the properties of, and the relationships solid geometric figures:	s between, plane and
	2.1 - Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and appropriate tools (e.g., straightedge, ruler, compass, protractor, drawing software).	nd triangles by using
=	2.2 - Know that the sum of the angles of any triangle is 180 deg. and the sum of the ang quadrilateral is 360 deg. and use this information to solve problems.	gles of any
	2.3 - Visualize and draw two-dimensional views of three-dimensional objects made from	ı rectangular solids.
	Statistics, Data Analysis, and Probability	
	1.0 - Students display, analyze, compare, and interpret different data sets, including sizes:	data sets of different
	1.1 - Know the concepts of mean, median, and mode; compute and compare simple ex they may differ.	amples to show that
=	1.2 - Organize and display single-variable data in appropriate graphs and representation circle graphs) and explain which types of graphs are appropriate for various data sets.	ns (e.g., histogram,
	1.3 - Use fractions and percentages to compare data sets of different sizes.	
=	1.4 - Identify ordered pairs of data from a graph and interpret the meaning of the data ir depicted by the graph.	terms of the situation
2	1.5 - Know how to write ordered pairs correctly; for example, (x, y).	
	Mathematical Reasoning	
	1.0 - Students make decisions about how to approach problems:	
	1.1 - Analyze problems by identifying relationships, distinguishing relevant from irreleva sequencing and prioritizing information, and observing patterns.	nt information,
	1.2 - Determine when and how to break a problem into simpler parts.	
	2.0 - Students use strategies, skills, and concepts in finding solutions:	
	2.1 - Use estimation to verify the reasonableness of calculated results.	
	2.2 - Apply strategies and results from simpler problems to more complex problems.	
	2.3 - Use a variety of methods, such as words, numbers, symbols, charts, graphs, table models, to explain mathematical reasoning.	s, diagrams, and
	2.4 - Express the solution clearly and logically by using the appropriate mathematical no clear language; support solutions with evidence in both verbal and symbolic work.	otation and terms and
	2.5 - Indicate the relative advantages of exact and approximate solutions to problems a specified degree of accuracy.	nd give answers to a

2.6 - Make precise calculations and check the validity of the results from the context of the problem.		
3.0 - Students move beyond a particular problem by generalizing to other situations:		
3.1 - Evaluate the reasonableness of the solution in the context of the original situation.		
3.2 - Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.		
3.3 - Develop generalizations of the results obtained and apply them in other circumstances.		

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