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Standard 3: Meas	uromont & Data			-			
Benchmark 1	urement & Data	Tell and write time.	Tell and write time.	Tell and write time.	Solve real world problems involving intervals of time		
		Tell and write time in hours and half-hours using analog and digital	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes	Use four operations to solve word problems involving intervals of time		
Benchmark 2	Represent and interpret data.	Represent and interpret data.	Represent and interpret data.	Represent and interpret data.	Represent and interpret data.	Represent and interpret data.	
	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple puttogether, take-apart, and compare problems using information presented in a bar graph.		1/8). Solve problems involving addition and subtraction of fractions by using information presented	data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving	
			Generate measurement data by measuring length of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.		Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.		
Benchmark 3	Identify, describe and reason with shapes and their attributes.	Identify, describe and reason with shapes and their attributes.	Identify, describe and reason with shapes and their attributes.	Identify, describe and reason with shapes and their attributes.	and angles, and classify shapes by properties of their lines and angles.	Classify two-dimensional figures into categories based on their properties.	
	Correctly name shapes regardless of their orientations or overall size.	Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.	Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	Understand that shapes in different categories may share attributes, and that the shared attributes can define a larger category. Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	
						Classify two-dimensional figures in a hierarchy based on properties.	

	Identify shapes as two-		Partition a rectangle into	Partition shapes into parts	Draw points, lines, line	
	dimensional (lying in a		rows and columns of same-	with equal areas. Express	segments, rays, angles	
	plane, "flat") or three-		size squares and count to	the area of each part as a	(right, acute, obtuse), and	
	dimensional ("solid").		find the total number of	unit fraction of the whole.	perpendicular and parallel	
			them.		lines. Identify these in two-	
			uiciii.		dimensional figures.	
					_	
	Describe objects in the				Recognize a line of	
	environment using names of				symmetry for a two-	
	shapes, and describe the				dimensional figure as a line	
	relative positions of these				across the figure such that	
	objects using terms as				the figure can be folded	
	above, below, beside, in				along the line into matching	
	front of, behind, and next to.				parts. Identify line-	
					symmetric figures and draw	
					lines of symmetry	
					Understand concepts of	
					angle and measure	
					angles.	
					Recognize angles as	
					geometric shapes that are	
			Í		formed wherever two rays	
					share a common endpoint,	
					and understand the	
					concepts of angle	
					measurement	
					Measure angles in whole-	
					number degrees using a	
					protractor. Sketch angles of	
					specified measure	
Danahmank 4	Describe and compare	Measure lengths indirectly	Measure and estimate	Measure lengths in	specified measure	
Benchmark 4	Describe and compare	Measure lengths indirectly		Measure lengths in	specified measure	
Benchmark 4	Describe and compare measurable attributes.	and by iterating length	Measure and estimate lengths in standard units.	Measure lengths in standard units.	specified measure	
Benchmark 4	measurable attributes.	and by iterating length units.	lengths in standard units.	standard units.	specified measure	
Benchmark 4	measurable attributes.  Describe measurable	and by iterating length units.  Order three objects by	lengths in standard units.  Measure the length of an	standard units.  Generate measurement	specified measure	
Benchmark 4	measurable attributes.  Describe measurable attributes of objects, such	and by iterating length units.  Order three objects by length; compare the lengths	lengths in standard units.  Measure the length of an object by selecting and	standard units.  Generate measurement data by measuring lengths	specified measure	
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			Measure to determine how much longer one object is				
			than another, expressing the				
			length difference in terms of a standard length unit.				
Benchmark 5	Analyze, compare, create,	Analyze, compare, create,	Analyze, compare, create,				
	and compose shapes.	and compose shapes.	and compose shapes.				
	Analyze and compare two-	Compose two-dimensional					
	and three- dimensional shapes, in different sizes	shapes or three- dimensional shapes to					
	and orientations, using	create a composite shape,					
	informal language to	and compose new shapes					
	describe their similarities, differences, parts and other	from the composite shape.					
	attributes .						
	Model shapes in the world						
	by building shapes from components and drawing						
	shapes.						
	Compose simple shapes to form larger shapes.	Partition circles and rectangles into two and four	Partition circles and rectangles into two and four				
	lomi larger snapes.	equal shares, describe the	equal shares, describe the				
		shares using the words	shares using the words				
		halves, fourths, and quarters, and use the	halves, fourths, and guarters, and use the				
		phrases half of, fourth of,	phrases half of, fourth of,				
			and quarter of. Describe the				
		whole as two of, or four of the shares. Understand for	whole as two of, or four of the shares. Understand for				
		these examples that	these examples that				
		decomposing into more equal shares creates	decomposing into more equal shares creates				
		smaller shares.	smaller shares.				
Benchmark 6				Solve problems involving	Solve problems involving	Convert like measurement	
201101111011110				measurement and	measurement and	units within a given	
				estimation of intervals of time, liquid volumes, and	conversion of measurements from a	measurement system	
				masses of objects.	larger unit to a smaller		
				Marian and a Provide Post of	unit.	0	
				Measure and estimate liquid volumes and masses of		Convert among different- sized standard	
				objects using standard units	one system of units	measurement units within a	
				of grams (g), kilograms (kg), and liters (l). Add, subtract,		given measurement system, and use these conversions	
				multiply, or divide to solve		in solving multi-step, real	
				one-step word problems	measurement, express	world problems.	
				involving masses of volumes that are given in	measurements in a larger unit in terms of a smaller		
				the same units, e.g., by	unit. Record measurement		
				using drawings (such as a	equivalents in a two-column		
				beaker with a measurement scale) to represent the	table. Generate a conversion table for feet and		
				problem.	inches listing the number		
					pairs (1, 12), (2, 24), (3, 36),		

Benchmark 7				Use four operations to solve word problems.	real-world and mathematical problems. Represent real world problems and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of point in the context of the situation.	
					number lines, called axes, to define the coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its	length of a side joining points with the same first coordinate or the same second coordinate. Apply
Benchmark 8		Relate addition and subtraction to length.	Geometric measurement: understand concepts of area and relate to multiplication and addition. Recognize perimeter as an attribute of plane figures and distinguish between linear and area measure.	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. (Also benchmark 6)	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	Solve real-world and mathematical problems involving area, surface area, and volume.

	as lengths from 0 on a number line diagram with	Recognize area as an attribute of plane figures and understand concepts of area measurement.	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.		Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
		Relate area to the operations of multiplication and addition.			
		Measure area by counting unit squares (square cm, square m, square in, square ft, and improvised units)			
	subtraction within 100 to solve word problems involving lengths that are given in the same units.	Solve real world and mathematical involving perimeters of polygons, including finding the perimeter given the side lengths, finding the unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.			
				Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	
				Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas V = I w h and V = b h to find volumes of right rectangular prisms with fractional edge lengths in the context of solving realworld and mathematical problems.
				Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.	

				Represent three- dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
Benchmark 9		Work with money.		
		Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and cents symbols appropriately.		