



I CAN DO THIS!

Fifth Grade Mathematics

Name _____

	#	 <h2 style="margin: 0;">Number Sense</h2> <h2 style="margin: 0;">Whole numbers</h2>	Problems or Examples 				
	1.0	I can add, subtract, multiply and divide very large and very small numbers.					
	1.1	I can estimate and round numbers to millions and thousandths.					
	1.2	I can explain what percent means, can calculate the percent of a whole number, and can find decimal and percent equivalents for common fractions.	A test had 48 problems. Joe got 42 correct. <ol style="list-style-type: none"> 1. What percent were correct? 2. What percent were wrong? 3. If Victoria got 93.75% correct, how many problems did she get correct? 				
	1.3	I can calculate using exponents.	Extend the tables shown below: $2^4=16$ $10^4=10,000$ $2^3=8$ $10^3=1,000$ $2^2=4$ $10^2=100$ $2^1=?$ $10^1=?$ $2^0=?$ $10^0=?$				
	1.4	I know the prime factors of all numbers through 50 and am able to write their prime factorizations using exponents.	Write as a product of primes using exponents (use factor trees or equivalents): 18, 48, 100.				
	1.5	I can recognize and write decimals, fractions, mixed numbers and positive and negative integers on a number line.	Arrange in order from smallest to largest: $\frac{9}{4}$, 25%, 0.3, $2\frac{1}{2}$, 0.295				

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Number Sense Whole numbers

Problems or Examples





#					
2.1	I can add, subtract, multiply and divide with decimals.	Find the average of 6.81, 7, 5.2 and round the answer to the nearest hundredth.			
2.1	I can add and subtract with negative integers.	Evaluate $0.25(3 - 0.75)$.			
2.2	I can solve division problems using whole numbers, positive decimals, and multi-digit divisors.	Find the quotient. $6 \div 0.25 =$			
2.3	I can add and subtract fractions and mixed numbers. I can write the answer in simplest form.	$12/16 + 3 \frac{1}{8} = 3 \frac{14}{16} = 3 \frac{7}{8}$			
2.4	I understand the concept of multiplication and division of fractions.	Given the following three pairs of fractions ($3/8$ and $1/6$, $5 \frac{3}{4}$ and $2 \frac{1}{3}$, 16 and $12 \frac{7}{8}$,) for each pair find its: <ol style="list-style-type: none"> Sum Difference Product Quotient in simplest forms. 			
2.5	I can multiply and divide fractions and solve word problems using the appropriate procedures.	$[9,185/2,117 \times 12/13] \div 9,185/2,117 = ?$ $[9,185/13 \times 12/2,117] \div 9,185/2,117 = ?$			

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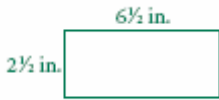
Name _____

	#	 Algebra and Functions	Problems or Examples 				
	1.1	I can use the information taken from a graph or equation to answer questions about a problem situation.	Joe's sister Mary is twice as old as he is. Mary is 16. How old is Joe?				
	1.2	I can use variables to write and solve simple algebraic expressions, like $3x+2=14$.	$3x+2=14$. What is x ?				
	1.3	I can use the distributive property to solve equations.					
	1.4	I can identify, write and graph ordered pairs in the four quadrants of the coordinate plane.	Plot the points $(1,2)$, $(-4, -3)$, $(12, -1)$, $(0,4)$, $(-4, 0)$.				
	1.5	I can write linear function equations and graph them on a coordinate plane.					

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#	 Measurement and Geometry	Problems or Examples 				
1.1	I can explain and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle.	Find the area and perimeter. Explain. 				
1.2	I can construct a cube and rectangular box from a pattern, like a fishing net and use the pattern, or fishing net to compute the surface area.					
1.3	I can understand what volume means, and can find the volume of rectangular solids, and be able to write the answer using notation, like cm and yd.	Determine the volume of a rectangular solid with base 65 cm, height 70 cm, and width 50 cm.				
1.4	I know the difference between 2-dimensional and 3-dimensional objects, and can measure them with appropriate units.	For a rectangular solid with base 65 cm, height 70 cm, and width 50 cm, determine its surface area. (Make sure that your answer is expressed in the correct units.)				

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	#	 Measurement and Geometry	Problems or Examples 				
	2.1	I can measure, identify and draw angles, perpendicular lines, rectangles and triangles by using appropriate tools.	Explain how to construct various complex geometric figures by using a ruler and compass; e.g., an equilateral triangle, a regular hexagon, a line passing through a given point and perpendicular to a given line.				
	2.2	I know the sum of the angles of many triangles as well as the sum of the angles of any quadrilateral and can use this information to solve problems.	Find the third angle of a triangle if you know that one angle is 60° and the second angle is 20° .				
	2.3	I can draw 2-D views and 3-D objects made from rectangular solids.					

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	#	 Statistics, Data Analysis, and Probability	Problems or Examples 				
	1.1	I can calculate and compare the mean, median and mode of a set of data.					
	1.2	I can explain which types of graphs are appropriate for various sets of data and I can organize single-variable data accordingly.	Draw a circle graph to display the following data: A certain municipal district spends 6 million dollars per year—\$2,507,000 on education, \$1,493,000 for public safety, \$471,000 for libraries, \$536,000 for road maintenance, and \$993,000 for miscellaneous expenses. (This problem also applies to Number Sense Standards 1.1 and 1.2.)				
	1.3	I can use fractions and percents to compare data.					
	1.4	I can identify ordered pair of data from a graph and understand the meaning of the data.					

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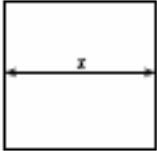
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#	 Mathematical Reasoning	Problems or Examples 				
1.1	I can identify when a word problem doesn't have enough information to solve it, or has unimportant information. I can also explain which information in the word problem is the most important.					
1.2	I can decide when and how to break a problem into simpler parts.	Betty paid \$23.60 for an item that was reduced by 20%. 1. What was the original price? 2. If the original price was reduced by 25%, what is the sale price?				
2.1	I can use estimation to prove if an answer is reasonable.	Which is longer: the width of your classroom or 8 times the length of your desk?				
2.2	I can use strategies from simple problems to help solve more difficult problems.					
2.3	I can communicate my math thinking in different ways, using models, diagrams, tables, charts, graphs, symbols, numbers, and words.	Assume that the sum of the length of any two sides of a triangle is greater than the length of the third side. If the lengths of the sides of a triangle are required to be whole numbers, how many such triangles are there with a perimeter of 14? List all of them.				

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	#	 Mathematical Reasoning	Problems or Examples 				
	2.4	I can clearly explain and justify my solutions using mathematical vocabulary and symbols, both written and oral.	How many segments “x” will fit on the perimeter of the square? 				
	2.5	I know when an exact answer is needed and when it is better to estimate.					
	2.6	I can calculate accurately and check the reasonableness of my answer by rereading the original problem.	What is the largest square of a whole number that divides 48? What is the largest cube of a whole number that divides 48?				
	3.0	I can use problem-solving strategies that I have learned before to figure out new problems that are similar.					