

Schoolwide Benchmark Assessment Plan

Math Standards

Test 1 September
Test 2 November

Test 3 January
Test 4 March

Testing	Standard	Category	FIFTH GRADE		FIFTH GRADE
			Essential Math Standards		Kid Friendly Standards
3	1.2	Number Sense	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.	1.2	I understand percents are part of a hundred
1	1.4	Number Sense	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., $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$).	1.4	I know all the prime factors of all numbers up to 50 and can write numbers as the product of their prime factors by using exponents.
1	2.2	Number Sense	Demonstrate proficiency with division, including division with positive decimals and long division with multi-digit divisors.	2.2	I know how to divide with positive decimals and I am able to do long division using multi-digit divisors.
1	2.3	Number Sense	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.	2.3	I am able to solve word problems in real-life situations and write answers in their simplest form. (My mom gave me 3 out of the five cookies in the cookie jar. Tommy, my brother, ate 1 of the 5 cookies. How many cookies out of the total did my brother eat? $3/5 + 1/5 = 4/5$)
1	1.2	Algebra and Functions	Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution.	1.2	I can use letters to represent an unknown number to calculate algebraic expressions ($x + 2 = 5$)
2	2.1	Number Sense	Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.	2.1	I know how to add, subtract, multiply, and divide with decimals. I can add with negative integers and subtract positive integers from negative integers.
2	1.1	Measurement and Geometry	Derive 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 (i.e., two of the same triangles make a parallelogram with twice the area; a parallelogram is compared with a rectangle of the same area by cutting and pasting a right triangle on the parallelogram).	1.1	I know how to use the formula for the area of a triangle ($1/2 bh$) and parallelogram (bh) by comparing to the area of a rectangle.
2	1.3	Measurement	Understand the concept of volume and use the appropriate units in	1.3	I know how to find the right units of measure while

		and Geometry	common measuring systems (i.e., cubic centimeter [cm ³], cubic meter [m ³], cubic inch [in ³], cubic yard [yd ³]) to compute the volume of rectangular solids.		calculating volume of rectangular solids (cubic centimeter = cm ³ , cubic meter = m ³ , cubic inch = in ³ , cubic yard = yd ³)
2	1.1	Mathematical Reasoning	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	1.1	I can break down problems by finding similar relationships, deciding important and not important information sequencing and putting most important information first, and I am aware of patterns.
3	1.5	Number Sense	Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.	1.5	I know and can show on a number line decimals, fractions, mixed number, and positive and negative integers.
3	1.2	Measurement and Geometry	Construct a cube and rectangular box from two-dimensional patterns and use these patterns to compute the surface area for these objects.	1.2	I can make a cube and rectangular box from two-dimensional patterns and use those patterns to calculate the surface area.
3	2.1	Measurement and Geometry	Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (e.g., straightedge, ruler, compass, protractor, drawing software).	2.1	I can measure, name, and draw angles (>), perpendicular and parallel lines (+, =), rectangle and triangles by using tools (ruler, compass, protractor, etc.)
3	2.2	Measurement and Geometry	Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and use this information to solve problems.	2.2	I know the sum of triangles is 180 degrees and the sum of any quadrilateral is 360 degrees.
3	1.1	Statistics, Data Analysis	Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ.	1.1	I know the concepts of mean (average), median (middle number), and mode (most repeated numbers).
4	1.4	Algebra and Functions	Identify and graph ordered pairs in the four quadrants of the coordinate plane.	1.4	I can locate and graph coordinates in the four quadrants of the coordinate plane.
4	1.5	Algebra and Functions	Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.	1.5	I can solve problems involving linear functions, write the equation, and graph the resulting ordered pairs on the grid.
4	1.2	Mathematical Reasoning	Determine when and how to break a problem into simpler parts.	1.2	I know when and how to break a problem into easier parts.
4	3.1	Mathematical Reasoning	Evaluate the reasonableness of the solution in the context of the original situation.	3.1	I can determine the most likely solution in the situation.
4	3.3	Mathematical Reasoning	Develop generalizations of the results obtained and apply them in other circumstances.	3.3	I can see connections from results found from other problems and apply those connections to other problems.