

# Mathematics

## Level 13 Standards

Name: \_\_\_\_\_

Concept Area and Standard	Date Passed Teacher Initials	Grade A = Advanced B = Proficient
<b>NUMBER SENSE</b>		
Compare and order positive and negative fractions, decimals, and mixed numbers, and place them on a number line (1.1)		
Calculate the given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips (1.4)		
Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation (2.1)		
Explain the meaning of multiplication and division of positive fractions and perform the calculations (2.2)		
Determine the least common multiple and the greatest common divisor of whole numbers; use them to solve problems with fractions (e.g., to find a common denominator to add two fractions or to find the reduced form for a fraction) (2.4)		
<b>ALGEBRA</b>		
Write and solve one-step linear equations in one variable (1.1)		
Apply algebraic order of operations and the commutative, associative, and distributive properties to evaluate expressions; and justify each step in the process (1.3)		
Solve problems manually by using the correct order of operations or by using a scientific calculator (1.4)		
<b>MEASUREMENT AND GEOMETRY</b>		
Use variables in expressions describing geometric quantities e.g., $P = 2w + 2l$ (perimeter of a rectangle), $A = \frac{1}{2}bh$ (area of a triangle), $C = \pi d$ (circumference of a circle) (3.1)		
Express in symbolic form simple relationships arising from geometry (3.2)		
Understand the concept of a constant such as $\pi$ ; know the formula for the circumference and area of a circle (1.1)		

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Know common estimates of $\pi$ (3.14; 22/7) and use these values to estimate and calculate the circumference and the area of circles; compare with actual measurements (1.2)		
Identify angles as vertical, adjacent, complementary, or supplementary and provide descriptions of these terms (2.1)		
Use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle (2.2)		
Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle (2.3)		
<b>STATISTICS, DATA ANALYSIS, &amp; PROBABILITY</b>		
Compute the range, mean, median, and mode of data sets (1.1)		
Understand how additional data added to data sets may affect these computations of measures of central tendency (1.2)		
Know why a specific measure of central tendency (mean, median, mode) provides the most useful information in a given context (1.4)		

**Date Completed All Level 13 Math Standards** \_\_\_\_\_ **Teacher Signature** \_\_\_\_\_

(Quarter 1) Parent Signature \_\_\_\_\_ (Quarter 2) Parent Signature \_\_\_\_\_

(Quarter 3) Parent Signature \_\_\_\_\_ (Quarter 4) Parent Signature \_\_\_\_\_