

Mathematics

Level 9 Standards

Name: _____

Concept Area and Standard	Date Passed	Grade A = Advanced B = Proficient
NUMBER SENSE		
Read and write whole numbers in the millions (1.1)		
Order and compare whole numbers and decimals to two decimal places (1.2)		
Round whole numbers through the millions to the nearest ten, hundred, thousand, ten thousand, or hundred thousand (1.3)		
Decide when a rounded solution is called for and explain why such a solution may be appropriate (1.4)		
Demonstrate an understanding of, and the ability to use, standard algorithms for the addition and subtraction of multi-digit numbers (3.1)		
Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions (1.5)		
Write tenths and hundredths in decimal and fraction notations and know the fractions and decimal equivalents of halves and fourths (e.g. $\frac{1}{2} = 0.5$ or 0.50 ; $\frac{7}{4} = 1\frac{3}{4} = 1.75$) (1.6)		
Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line (1.7)		
Use concepts of negative numbers (e.g. on a number line, in counting, in temperature, in “owing”) (1.8)		
Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals, to two decimal places (1.9)		
Demonstrate an understanding of, and the ability to use, standard algorithms for multiplying a multi-digit number by a two-digit number and for dividing a multi-digit number by a one-digit number; use relationships between them to simplify computations and to check results (3.2)		
ALGEBRA		
Use letters, boxes, or other symbols to stand for any number in simple expressions or equations (e.g. demonstrate an understanding and the use of the concept of a variable) (1.1)		
Interpret and evaluate mathematical expressions that now use parentheses (1.2)		

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Use parentheses to indicate which operation to perform first when writing expressions containing more than two terms and different operations (1.3)		
Know and understand that equals added to equals are equal (2.1)		
Know and understand that equals multiplied by equals are equal (2.2)		
MEASUREMENT AND GEOMETRY		
Measure the area of rectangular shapes by using appropriate units, such as square centimeter (cm ²), square meter (m ²), square yard (yd ²), or square mile (mi ²) (1.1)		
Recognize that rectangles that have the same area can have different perimeters (1.2)		
Understand that rectangles that have the same perimeter can have different areas (1.3)		
Understand and use formulas to solve problems involving perimeters and areas of rectangles and squares. Use those formulas to find the areas of more complex figures by dividing the figures into basic shapes (1.4)		

Date Completed All Level 9 Math Standards _____ **Teacher Signature** _____

(Quarter 1) Parent Signature _____ (Quarter 2) Parent Signature _____

(Quarter 3) Parent Signature _____ (Quarter 4) Parent Signature _____