

" I Can" Mascoma Standards 7th Grade Math

I Can Use Proportional Relationships to Help Me Understand Math

 \Box] Can draw a model for a proportional relationship and connect it to an equation to solve a problem. 7.RP.2C

 \Box] Can Compute unit rates with ratios of fractions, including lengths, areas, and other units. 7.RP.1

 \Box] Can determine whether two quantities are proportional from a table or a graph. 7.RP.2a

 \Box] Can identify the unit rate in tables, graphs, equations, diagrams, and verbal expressions. 7.RP.2b



□] Can represent proportional relationships by equations. 7. RP. 2C

 \Box] Can interpret and explain what a point (X, Y) means on a proportional graph, attending to (0, 0) and (1, r) where r is the unit rate . 7.RP.2d

 \Box] Can use proportions to solve multi-step ratio and percent problems (interest, tax, discounts, and tips). 7.RP.3

I Can Use Properties of Operations to Help Me Understand Math

□ I Can add and subtract linear expressions with rational Coefficients. 7.EE.1



□ I Can explain simplification of algebraic expressions. 7.EE.2

 \Box] Can factor and expand linear expressions with rational coefficients. 7.EE.2

 \Box] Can restate expressions to make sense of real life situations. (the perimeter of a rectangle Can be |+|+w+w or 2|+2w. 7.EE.2

□ I Can solve multi-step mathematical and real life problems posed with positive and negative rational numbers. 7.EE.3



□ I Can Convert between rational number forms if necessary (fractions/decimals/percents) . 7.EE.3

 \Box] Can determine if and explain why an answer to a multi-step real life problem is reasonable by using estimation and mental math. 7.EE.3

 \Box] Can fluently solve multi-step equations of the form p (x + q) = r. 7. EE.4a

 \Box] Can solve multi-step inequalities, and graph the solution on a number line. 7.EE.4b

I Can Use Geometry to Help Me Understand Math

□ I Can solve problems with scale drawings of geometric figures. 7.G.1

□ I Can Compute actuals lengths are area from a scale drawing. 7.G.1



 \Box] Can draw geometric shapes with given conditions (freehand, ruler \Rightarrow protractor, technology). 7.G.2

 \Box] Can describe the two-dimensional figure that results from slicing a three-dimensional figure. 7.G.3

 \Box] Can give an informal derivation of the relationship between the circumference and area of a Circle. 7.G.4

□] Can use facts about supplementary, Complimentary, Vertical and adjacent angles in solving a multi-step problem. 7.G.5

 \Box] Can write and solve simple equations for an unknown angle in a figure. 7.G.4

□] Can solve real-world and mathematical problems involving 2 dimensional area (triangles, quadrilaterals, polygons) and 3 dimensional volume and surface area (Cubes, right prisms) 7.G.6

I can use Statistics and Probability to Help Me Understand Math

□ I can make generalizations from statistical data about a population sample. 7.5P.1

□ I can compare and draw inferences from measures of central tendency



(mean/median/mode), measures of Variation (range/quartile/ interquartile range), Visual Overlap, and mean absolute deviation (dot plots/box plots/histograms). 7. SP.4

 \Box] Can describe the difference between two sample populations and explain what the difference means. 7.5P.4

 \Box] Can explain why the numeric probability of an event is between 0 and 1.7.SP.5

□ I Can predict probability from Collecting data. 7. SP.5

[] Can find the probability of Compound events by Constructing models (lists/tables/tree diagrams/simulations). 7.5P.8

□ I can design and use a simulation to generate frequencies for compound events. 7.5P.8c

I Can Use the Number System to Help Me Understand Math

 \Box] Can explain my solutions for operations on integers . 7.NS.1

□ I can add and subtract natural and whole numbers, integers, fractions, and decimals, individually and combining more than one type of number. 7.NS.2

□ I can multiply and divide natural and whole numbers, integers, fractions, and decimals, individually



and Combining more than one type of number. 7.NS.2

□ I can solve real-world problems involving all four operations on rational numbers. 7.NS.3

□ I Can apply the properties of operations (Commutative, associative, identity, distributive, and inverse properties) along with the order of operations to solve problems with rational numbers. 7.MS.3

