

### Pacing Guide for Acuity Readiness Form A Grade 8 - Math (Performance)

Grade	Domain	Cluster	Cluster	Standard Skills	DOK
Grade 07	7.EE Expressions and Equations	Use properties of operations to generate equivalent expressions	Use properties of operations to generate equivalent expressions	7.EE.2 Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. For example, $a + 0.05a = 1.05a$ means that increase by 5% is the same as multiply by 1.05.	Level 2 - Using Fundamental Concepts and Procedures
Grade 07	7.EE Expressions and Equations	Solve real-life and mathematical problems using numerical and algebraic expressions and equations	Solve real-life and mathematical problems using numerical and algebraic expressions and equations	7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional $\frac{1}{10}$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.	Level 2 - Using Fundamental Concepts and Procedures
Grade 07	7.EE Expressions and Equations	Solve real-life and mathematical problems using numerical and algebraic expressions and equations	7.EE.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.	7.EE.4.a Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?	Level 2 - Using Fundamental Concepts and Procedures
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Grade 07	7.G Geometry	Draw, construct, and describe geometrical figures and describe the relationships between them	Draw, construct, and describe geometrical figures and describe the relationships between them	7.G.2 Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Level 2 - Using Fundamental Concepts and Procedures
Grade 07	7.G Geometry	Solve real-life and mathematical problems involving angle measure, area, surface area, and volume	Solve real-life and mathematical problems involving angle measure, area, surface area, and volume	7.G.6 Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	Level 2 - Using Fundamental Concepts and Procedures
Grade 07	7.RP Ratios and Proportional Relationships	Analyze proportional relationships and use them to solve real-world and mathematical problems	Analyze proportional relationships and use them to solve real-world and mathematical problems	7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks $\frac{1}{2}$ mile in each $\frac{1}{4}$ hour, compute the unit rate as the complex fraction $\frac{1/2}{1/4}$ miles per hour, equivalently 2 miles per hour.	Level 2 - Using Fundamental Concepts and Procedures
Grade 08	8.EE Expressions and Equations	Analyze and solve linear equations and pairs of simultaneous linear equations	8.EE.8 Analyze and solve pairs of simultaneous linear equations.	8.EE.8.c Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.	Level 2 - Using Fundamental Concepts and Procedures