

Scope and Sequence – Bridge to Math 7/8

New Content: 7 th Grade Standards	Secured Content: Previously Taught Standards
7. NS.A.1a, 1b, 1c. 1d: Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line. - Describe situations in which opposite quantities combine to make 0. - Understand $p + q$ as the number located q from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts. - Understand that subtraction of rational numbers as adding the additive inverse $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference and apply the principals in real-world contexts. - Apply properties of operations as strategies to add and subtract rational numbers. 7. NS.A.2a, 2b, 2c: Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. - Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to the products $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world context. - Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts. - Apply properties of operations as strategies to multiply and divide rational numbers. 7.NS.A.3: Solve real-world and mathematical problems involving the four operations with rational numbers.	- Add and subtract whole numbers, fractions, and decimals. - Convert between fractions, decimals, and percentages. - Find the position of positive and negative numbers on a number line and coordinate plane. - Develop an understanding of absolute value. - Multiply and divide whole numbers, fractions, and decimals. - Use the properties of operations to fluently add, subtract, multiply and divide whole numbers, fractions, and decimals.

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7.EE.A.1: Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. 7.EE.A.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. 7.EE.B.3: Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form, 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.	• Develop an understanding of whole-number exponents (squares and cubes). • Write expressions with operations, numbers, and letters. • Name the parts of expressions. • Evaluate expressions that arise from formulas. • Use the properties of operations (including the distributive property) to simplify expressions and produce equivalent expressions.
7.RP.A.3: Use proportional relationships to solve multi-step ratio and percent problems (simple interest, tax, markups, markdowns, gratuities, commissions, percent increase, decrease, error).	• Recognize percent as a part compared to a whole (that has a value of 100). • Find percent, the part, and the whole. • Use ratio tables and double number lines to solve percent problems. • Evaluate expressions that arise from formulas.