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| **LG #** | | **MCR01** | **Standards:** | **7.NS.1.1, 7.NS.1.2, 7.EE.2.4** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.**  **The student will be able to:**   * Create a model of a real-world situation using addition and subtraction of rational numbers (including integers, fractions, decimals, etc.) and illustrate it in multiple representations. * Analyze the relevancy of the Order of Operations in real-world applications. * Write and extend multi-step compound inequalities represented in real-world and mathematical problems.   **No major errors or omissions regarding the score 4.0 content.** | | | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | | | |
| **3.0** | **Students will be able to add, subtract, multiply and divide rational numbers and use numerical and algebraic expressions and equations to solve mathematical problems in context.**  **The student will be able to:**   * Interpret sums of rational numbers by describing real-world contexts. (7.NS.1.1b) * Apply the principle of absolute value to solve problems in real-world contexts (7.NS.1.1c) * Apply the Commutative Property, Associative Property, and the Order of Operations as strategies to add and subtract rational numbers (7.NS.1.1d) * Solve real-world and mathematical problems applying properties of adding and subtracting rational numbers. (7.NS.1.1d) * Demonstrate a conceptual understanding of the application of the Distributive Property (7.NS.1.2a) * Interpret products of rational numbers by describing real-world contexts. (7.NS.1.2a) * Interpret quotients of rational numbers by describing real-world contexts. (7.NS.1.2b) * Apply properties of operations as strategies to multiply and divide rational numbers. (7.NS.1.2c) * Determine if a rational number translates into a terminating or repeating decimal using long division. (7.NS.1.2d) * Write and solve multi-step equations and inequalities represented in real-world and mathematical problems. (7.EE.2.4a, 7.EE.2.4b) * Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations in each approach. (7.EE.2.4a) * Graph and interpret the solution set of an inequality in context. (7.EE.2.4b)   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | | | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | | | |
| **2.0** | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Rational Numbers | * Additive Inverse | * Integer | | * Whole Number | * Fraction | * Absolute Value | | * Properties of Operations | * Irrational | * Distributive Property | | * Repeating Decimal | * Divisor | * Algebraic Solution | | * Terminating Decimal | * Dividend | * Rational Coefficients | | * Solution | * Solution Set | * Equations | | * Estimation | * Computation | * Inequalities |   **The student will be able to:**   * Describe situations in which opposite quantities combine to make 0. (7.NS.1.1a) * Show that a number and its opposite are additive inverses with a sum of 0. (7.NS.1.1b) * Describe a conceptual understanding of absolute value. (7.NS.1.1b) * Illustrate a conceptual understanding of adding rational numbers on a horizontal and vertical number line. (7.NS.1.1b) * Develop a conceptual understanding of addition and subtraction of rational numbers applying the additive inverse. (7.NS.1.1b, 7.NS.1.1c) * Illustrate a conceptual understanding of subtracting rational numbers on a horizontal and vertical number line. (7.NS.1.1c) * Illustrate the distance between two rational numbers on the number line is the absolute value of their difference. (7.NS.1.1c) * Use the Distributive Property when multiplying rational numbers. (7.NS.1.2a) * Develop and demonstrate a conceptual understanding of multiplying and dividing rational numbers. (7.NS.1.2a, 7.NS.1.2b) * Convert a rational number to a decimal using long division. (7.NS.1.2d) * Solve equations and inequalities. (7.EE.2.4) * Graph inequalities. (7.EE.2.4) | | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | | | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | | |
| **0.0** | Even with help, no understanding or skill is demonstrated | | | |