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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:**

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| * Rational Numbers
 | * Additive Inverse
 | * Integer
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| * 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)
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| **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 |