**Adding, Subtracting, Multiplying, and Dividing Rational Numbers**

***Adding Three or More Rational Numbers:***

Ex (1): Find the sum of 1.2 + 3.4 + 5.6

1.2 + 3.4 + 5.6 = **10.2**

\*\*If calculating **manually**, make sure that all **decimals are lined up** before adding

Ex (2): Find the sum of ¼ + 5.5 + 5/8

0.25 + 5.5 + 0.625 = 6.375

\*\*When calculating fractions and decimals in the same problem, convert the fractions into decimals then add.

***Subtracting Positive Rational Numbers:***

Ex (3): Find the sum of 1/2 - (1 2/3). Leave answer as a fraction.

Answer:

***Subtracting Negative Rational Numbers*:**

Ex (4): Find the sum of . Leave answer as a fraction.

***Signs for positive/negative signs for both Multiplying and Dividing***:

Note: It is important to pay attention to the signs of the numbers.

**Like signs** result in a positive sign

1. positive (x or ÷) positive = **positive**
2. negative (x or ÷) negative = **positive**

**Unlike signs** result in a negative sign

1. positive (x or ÷) negative = **negative**
2. negative (x or ÷) positive = **negative**

***Multiplying more than two Rational Numbers*:**

Ex (5): Find the product of

Three Neg Fractions 🡪Multiply numerator with numerator 🡪 Negative Answer

Multiply denominator with denominator

Ex (6): Find the product of . Leave as a decimal answer.

Two Negative Values 🡪 Multiply two negative #’s with one positive # 🡪 pos ans

***Quotients of Rational Numbers***:

Ex (7): Find the quotient of

Ex (8): Find the quotient of \*This is a complex fraction (Dividing two fractions)

Note: When dividing using the calculator, you type the numerator in first then the denominator to get your answer (With **negative numbers** type the negative with the numerator value. If the negative is attached to the denominator then type the negative with the denominator)

Ex.