**Adding Rational Numbers**

Same Sign:

Ex (1): Malachi hikes for 2.5 miles and stops for lunch. Then he hikes for 1.5 more miles. How many miles did he hike altogether?

Step(1): Write the equation (Malachi hikes a positive 2.5 then hikes a positive 1.5)

 2.5 + 1.5

Step(2): Solve the equation

 2.5 + 1.5 = 4.0 mi. \*Malachi hiked 4 miles\*

Ex (2): Anthony adds ¾ liter of liquid to a beaker. Then he adds another ½ liter of liquid. What is the overall change in the amount of liquid in the beaker?

Step(1): Write the equation (He increases the amount of liquid by ¾ then ½ more)

 $\frac{3}{4} + \frac{1}{2} $

Step(2): Solve the equation

 $\frac{3}{4} + \frac{1}{2} = \frac{3}{4} + \frac{1x2}{2 x 2} = \frac{3}{4} + \frac{2}{4} = \frac{5}{4} = 1\frac{1}{4}$

Adding Three or More Rational Numbers:

Ex (3): 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 (4): 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.