Types of Numbers

- Natural Numbers are how we "naturally count"... They are also called, "counting numbers". Written in set notation: {1,2,3,4,5,...}

- Whole Numbers are all the natural numbers and zero. Written in set notation: {0,1,2,3,4,...}

- Integers are all the whole numbers and their opposites. Written in set notation: {...,-2,-1,0,1,2,...}

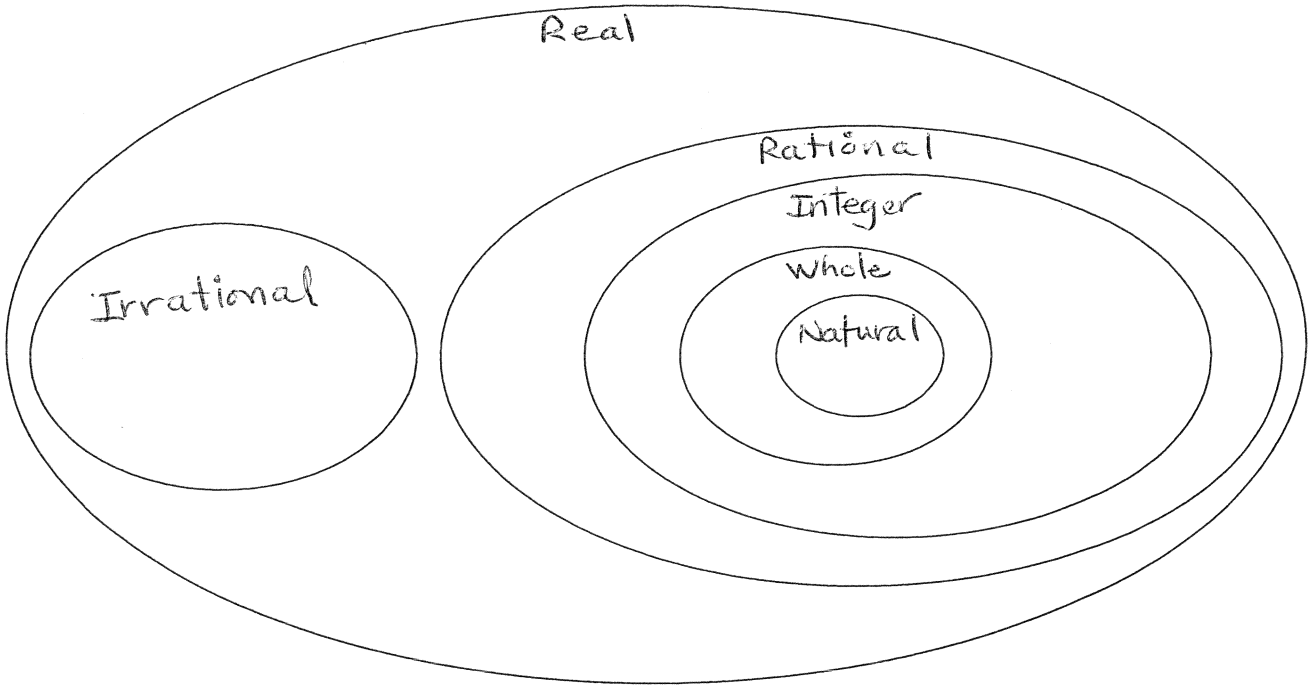
- Rational Numbers are any numbers that can be written as a fraction, a/b, where a and b are integers and b ≠ 0. The decimal would be terminating or repeating. Some examples are: 5, .2, 34%, √49, .333..., 1.070707..., etc.

ratios are fractions

Rational "Fractional"

- Irrational Numbers are any numbers that can not be written as a fraction, a/b, where a and b are integers and b ≠ 0. The decimal would be never ending and never repeating. Some examples are: π, √62, 4.030030003..., etc.

We will now place the "number types" in the Venn Diagram...



We will place numbers in the diagram in the appropriate section of the duplicate diagram below.