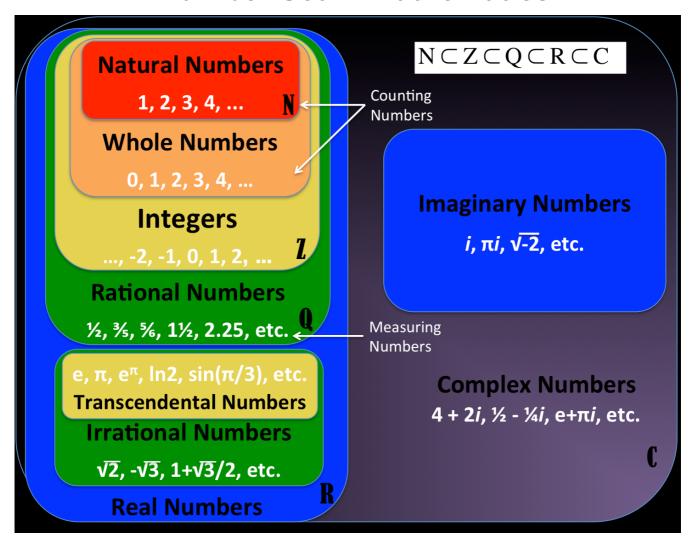


# **Number Set in Mathematics**



# 3.1

### What Is a Rational Number?

#### Definition of a Rational Number

A rational number is any number that can be written in the form  $\frac{m}{n}$ , where m and n are integers and  $n \neq 0$ .

$$Q = \left\{ \frac{m}{n} \middle| m, n \in I, n \neq 0 \right\}$$

## **Reading that Math:**

The rational numbers, Q, are defined as, =, the set of all numbers,  $\{\}$ , that can be written as a fraction,  $\frac{m}{n}$ , where m and n are an element of, $\in$ , the set of Integers, I, where n cannot equal,  $\neq$ ,

Zero. Math is wordy! Which is why symbols are used. Then the math can be read by anyone as the symbols are used internationally.

Number Lines  $V = \begin{bmatrix} -5 & \frac{4}{6} \end{bmatrix}$   $E = -3 & \frac{5}{6} \end{bmatrix}$   $\begin{array}{c} -5 & \frac{4}{6} \end{bmatrix}$   $\begin{array}{c} -5 & \frac{4}{6} \end{bmatrix}$   $\begin{array}{c} -6 & \frac{2}{3} \\ -1 & 0 \end{array}$   $\begin{array}{c} -1 & 0 \\ -1 & 2 \end{array}$   $\begin{array}{c} -2 & \frac{3}{2} \\ -2 & -8 \end{array}$   $\begin{array}{c} -2 & \frac{3}{2} \\ -2 & -8 \end{array}$