

Rational Numbers: Numbers that can be written as fractions.

E.g: non-zero, numerator and denominator are integers. Denominator is non-zero,

$$\frac{1}{2}, \frac{3}{4}, -\frac{10}{3}, \frac{-9}{-5}, 3, 1.46, -3.25, -5$$

Irrational Numbers: Numbers that cannot be written as fractions

E.g:  $\sqrt{2}$ ,  $\pi$ ,  $\cos \theta$ , 5.462

Real Numbers: Rational and irrational numbers

Mixed Numbers:  $3\frac{1}{4}$

Improper fractions:  $\frac{11}{6}$

Equivalent Fractions:  $\frac{1}{2} = \frac{2}{4}$

Natural Numbers: Positive whole numbers. E.g: 1, 2, 3, 7, 85

Whole Numbers: Natural numbers and zero

Integers: Positive and negative whole numbers

Prime Numbers: Numbers only divisible by itself. E.g: 1, 2, 3, 5, 7, 11, 13...

Composite Numbers: Numbers that have factors other than 1

Complex Numbers:  $i = \sqrt{-1}$ ,  $i^2$