Natural Number - **N** {1, 2, 3, 4, 5, ...}

Whole Numbers {0, 1, 2, 3, 4, 5, ...}

Integers Numbers - \mathbb{Z} {...,-2,-1,0,1,2,3,...}

Rational Numbers - $\mathbb{Q} \{ \frac{p}{q}, p \text{ and } q \text{ are in } \mathbb{Z} \}$

Irrational Numbers - $\{\pi, \sqrt{2}\}$

Real Numbers - R

Complex Numbers - \mathbb{C} $\{a+ib \ a \ and \ b \ are \ in \ \mathbb{R}\}$

Symbols

=: Equal ∅: Null symbol

≠: Not equal |.|: Absolute value

 \approx : Approximate \exists : Existential quantifier (For some ... There exists

~: Similarity ∄: Doesn't exist

€: is an element of ∀: Universal quantifier (For all ..., For every...)

Int

Un

□: Proper subset symbol (): Open Interval

<: is less than []: Close Interval

>: is greater than ⊥: Perpendicular

≤: is less than or equal //: Parallel

≥: is greater than or equal ∃: such that