



TYPES OF NUMBERS

1.) NATURAL NUMBERS

- $N = \{1, 2, 3, 4, \dots\}$ -> Infinite
- N – Set
- Represented by N

Note: Natural numbers can be a whole number

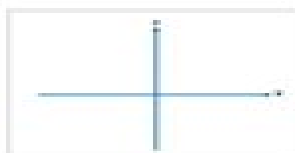
2.) WHOLE NUMBERS

- $W = \{0, 1, 2, 3, 4, \dots\}$ -> Infinite
- Represented by W

Note: Whole numbers can be a natural number except zero

3.) INTEGERS

- $Z = \{-1, -2, -3, 4, 5, 6, \dots\}$ -> Infinite
- Represented by Z



Note:

- Integers can be a natural and whole number except zero
- Small letters are used to represent element or variable
- Capital letters represent as Set
- Natural number and whole number can be integers

4.) REAL NUMBERS

- $R = \{1, 0.5, \%, 0.34, 0.35, \dots\}$
- Represented by R

Note: all numbers are real numbers except imaginary

ZERO - point of origin
- Imaginary number

5.) RATIONAL NUMBERS

- $Q = \{2/3, \%, \%, \%, 0/2, 0/1, \dots\}$ -> Infinite
- Fraction form
- P/q such that $q \neq 0$ but $p = 0$
- Represented by Q

Note: denominator cannot be zero

6.) IRRATIONAL NUMBERS (CONSTANT NUMBERS)

- $I = \{\pi, \sqrt{2}, \sqrt{3}, e, \sqrt{10}, 1.24\}$
- Represented by I
- All decimal numbers

THE NATURE OF MATHEMATICS

NATURE

- Character
- Identity

Mathematics is a:

- Study of patterns
- An art
- A process of thinking
- A language
- A set of problem – solving tools

DEFINITION OF MATHEMATICS

- A study of numbers and arithmetic operations
- A set of tools or a collection of skills that can be applied to question of "how many" and "how much"
- It is a science which involves logical reasoning, drawing, conclusions from assumed premises, and strategic reasoning based on accepted rules, laws, or probabilities
- An art which studies patterns for predictive purposes or a specialized language which deals with form, size and quantity.

NUMBER SENTENCE

ADDITION SENTENCE

$$\begin{array}{c} \text{plus sign} \qquad \qquad \text{equals} \\ \downarrow \qquad \qquad \qquad \downarrow \\ 9 + 17 = 26 \\ \uparrow \qquad \qquad \uparrow \qquad \qquad \uparrow \\ \text{addend} \quad \text{addend} \quad \text{sum} \end{array}$$

SUBTRACTION SENTENCE

$$\begin{array}{c} 5 - 2 = 3 \\ \text{Minuend} \quad \text{Subtrahend} \quad \text{Difference} \end{array}$$

Modern Introduction To College Mathematics

S. Raizen, E.D. Britton



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