

### MATHEMATICS IN THE MODERN WORLD

Lesson 1: Introduction

PRELIMS A.Y. 23-24

#### TYPES OF NUMBERS

#### 1.) NATURAL NUMBERS

- N = {1,2,3,4...} -> Infinite
- N Set
- Represented by N

Note: Natural numbers can be a whole number

#### 2.) WHOLE NUMBERS

- W = {0, 1, 2, 3, 4...} -> Infinite
- Represented by W

Note: Whole numbers can be a natural number except zero

#### 3.) INTEGERS

- Z = {-1, -2, -3, 4, 5, 6...} -> infinite
- Represented by Z.



#### Morte:

- 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...}
- Represented by R.

Note: all numbers are real numbers except imaginary

ZERO - point of origin

- Imaginary number

#### 5.) RATIONAL NUMBERS

- Q = {2/3, ¼, ½, ¼, 0/2, 0/1\_} -> infinite
- Fraction form
- P/q such that q ≠ o but p = o
- Represented by Q.

Note: denominator cannot be zero

## 6.) IRRATIONAL NUMBERS (CONSTANT NUMBERS)

- I = { n, v2, v3, e, v10, 1.24}
- Represented by I.
- All decimal numbers

#### THE NATURE OF MATHEMATICS

#### MATURE

- Character
- > Identity

#### Mathematics is a:

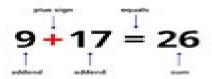
- Study of patterns
- An art.
- A process of thinking
- A language
- A set of problem solving tools

#### **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 may" 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



#### SUBTRACTION SENTENCE

5 - 2 = 3

# **Modern Introduction To College Mathematics**

**Neal H. McCoy** 

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Answers Modern Introduction to College Mathematics Rose, 1959-01-01 Modern Introduction to College Mathematics A modern introduction to college mathematics Israel H. Rose, 1963 **Introduction to Modern** Rose, 1959-01-01 **Algebra** Neal Henry McCoy, 2012-03-01 Canadian Journal of Mathematics ,1959 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1960 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June The American Mathematical Monthly, 1922 Includes section Recent publications **Bold Ventures** S. Raizen, E.D. Britton, 2012-12-06 This book presents comprehensive results from case studies of three innovations in mathematics education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensi ve documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 2 of Bold Ventures pre sents the results from case studies of five innovations in science education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least if not all of the mathematics innovations discussed in this volume for one example the NCTM Standards and probably with their general substance Much of the education community s familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects themselves Canadian Mathematical Bulletin ,1960 Introduction to Modern Algebra Neal H. McCoy, 1964

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