TYPES OF NUMBERS

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

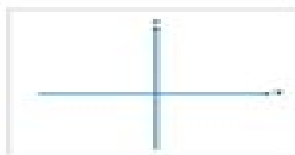**Note:** *Natural numbers can be a whole number*

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

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, ⅜, 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, ⅗, ¾, 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 = { π, √2, √3, e, √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 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

plus sign   equals

$$9 + 17 = 26$$

addend   addend   sum

SUBTRACTION SENTENCE

$$5 - 2 = 3$$

Minuend   Subtrahend   Difference

Modern Introduction To College Mathematics

Neal H. McCoy

Modern Introduction To College Mathematics:

   Modern Introduction to College Mathematics Rose,1959-01-01   Answers Modern Introduction to College Mathematics Rose,1959-01-01   *A modern introduction to college mathematics* Israel H. Rose,1963   **Introduction to Modern Algebra** Neal Henry McCoy,2012-03-01   **Introduction to Modern Algebra** Neal H. McCoy,1964   **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 pro jects 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   **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   A Modern Introduction to Linear Algebra Henry Ricardo,2009-10-21 Useful Concepts and Results at the Heart of Linear AlgebraA one or two semester course for a wide variety of students at the sophomore junior undergraduate levelA Modern Introduction to Linear Algebra provides a rigorous yet accessible matrix oriented introduction to the essential concepts of linear algebra Concrete easy to understand examples m   **Introduction to College Mathematics** Richard G. Smith,Sinclair Community College,1999-08   *Basic College Mathematics* Ignacio Bello,2006 Basic College Mathematics will be a review of fundamental math concepts for some students and may break new ground for others Nevertheless students of all backgrounds will be delighted to find a refreshing book that appeals to all learning styles and reaches out to diverse demographics Through down to earth explanations patient skill building and exceptionally interesting and realistic applications this worktext will empower students to learn and master mathematics in the real world   **Intro to College Math** Nathan Frey,2019-06 The goal of this book is to provide a basic understanding of mathematics at an intro to college level The book is designed to go along with a course of Intro to College Math for those pursuing Nursing AAS or similar programs It is also designed as a refresher for adult students going back into the math classroom The course is divided into four main sections Arithmetic Geometry Algebra and Statistics Probability This covers the basics Adding subtracting multiplying and dividing with decimals and fractions It also discusses problems with percents fractions and proportions in algebraic and real world contexts Then we delve into some basic geometry problems We will look at the basics of what is

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