

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:

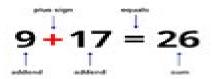
- Study of patterns
- An art.
- A process of thinking
- A language
- A set of problem solving tools

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

Terry C. Jones

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- 1. Understanding the eBook Modern Introduction To College Mathematics
 - The Rise of Digital Reading Modern Introduction To College Mathematics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Modern Introduction To College Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Introduction To College Mathematics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Modern Introduction To College Mathematics
 - Personalized Recommendations
 - Modern Introduction To College Mathematics User Reviews and Ratings
 - Modern Introduction To College Mathematics and Bestseller Lists
- 5. Accessing Modern Introduction To College Mathematics Free and Paid eBooks

- Modern Introduction To College Mathematics Public Domain eBooks
- Modern Introduction To College Mathematics eBook Subscription Services
- Modern Introduction To College Mathematics Budget-Friendly Options
- 6. Navigating Modern Introduction To College Mathematics eBook Formats
 - o ePub, PDF, MOBI, and More
 - Modern Introduction To College Mathematics Compatibility with Devices
 - Modern Introduction To College Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Introduction To College Mathematics
 - Highlighting and Note-Taking Modern Introduction To College Mathematics
 - Interactive Elements Modern Introduction To College Mathematics
- 8. Staying Engaged with Modern Introduction To College Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Introduction To College Mathematics
- 9. Balancing eBooks and Physical Books Modern Introduction To College Mathematics
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Modern Introduction To College Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modern Introduction To College Mathematics
 - Setting Reading Goals Modern Introduction To College Mathematics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modern Introduction To College Mathematics
 - Fact-Checking eBook Content of Modern Introduction To College Mathematics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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