

MATHEMATICS IN MODERN WORLD: Study Guide

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CHAPTER 1: Mathematics in our world

1.1 Numbers Patterns

Topics:

- Number patterns
- Arithmetic Patterns
- Geometric Pattern
- Triangular Pattern
- Fibonacci Sequence
- Binet's Formula
- Golden Ratio

1.2 Patterns in Nature

- Spiral Shells of Snails and Nautilus
- Fibonacci numbers in Sunflower
- Dunes and Wave Patterns
- Spots and Stripes (Turing Mechanism)
- Symmetry in Nature

1.3 Introduction to Fractals

- Fractals

CHAPTER 2: Mathematical Language and

Symbols

Summary: Language of Mathematics is system of symbols and rules used to represent and manipulate mathematical concepts and relationships.

2.1 Mathematical Notations and Symbols

- Notations : Natural numbers, Whole numbers, Rational numbers, Irrational numbers, real numbers and complex numbers
- Constant
- Delimiters
- Common Operator
- Relational Symbols

2.2 Mathematical Sentence

- Mathematical Expression
- Mathematical Sentence
- Translating an English sentence into a mathematical sentence

CHAPTER 3: Problem Solving and Reasoning

- Reasoning: Inductive Reasoning and Deductive Reasoning
- Problem Solving: Polya's 4 - step in Problem-solving Process

CHAPTER 4: Data Management

- Key activities involved in data management: (1) Data Collection, (2) Data Storage, (3) Data processing, (4) Data Analysis, (5) Data Quality Management and (6) Data Security
- Statistical tools in Data Management: (1) Descriptive Statistics, (2) Inferential Statistics, (3) Probability, (4) Sampling, (5) Correlation and Regression and (6) Statistical Software
- Kinds of Variables: Quantitative (numerical) and Qualitative (variables can be placed into distinct categories).
- Four levels of Data Management: Nominal, Ordinal, Interval and Ratio
- Data Presentation: Charts & Graphs (Line Graph, Bar Graph and Pie Chart), Tables, Maps and Infographics.
- Tabular Presentation of Data: (1) Examine the table structure, (2) Identify patterns and trends, (3) Calculate summary statistics, (4) Compare and contrast and (5) Draw Conclusions

- Measure of Central Tendency: Arithmetic Mean, Median and Mode
- Measure of Dispersion: Range, Variance, Population Variance, Standard Deviation and Sample Variance.
- Measure of Relative Position: Percentiles, Quartiles and Standard Score
- Normal Distribution

CHAPTER 5: Geometric Design

Summary: Geometry influences various aspects of our surrounding, encompassing shaped, line, volume, surface area, curves and other geometric elements.

5.1 Geometric Shapes

- Polygons
- solid

5.2 Transformations

- Translation
- Rotation
- Reflection
- Glide reflection
- Dilation

5.3 Patterns and Diagrams

- Symmetry
- Rosette Pattern
- Frieze Pattern
- Tessellations

5.4 Mindanao Designs

- Local cultural geometry.

CHAPTER 8: Voting

Summary:

Voting systems aim to represent collective decision-making.

8.2 Introduction to Voting

- Plurality Method Of Voting
- Plurality With Elimination
- Borda Count Method
- Pairwise Comparison Voting Method

CHAPTER 9: Mathematical Systems

9.1 Introduction to Congruences

- Divisibility
- Congruence

9.2 Introduction to Modular Arithmetic

- Time-of-the-day arithmetic
- day-of-the-week arithmetic
- leap year
- table for modular arithmetic

9.3 Congruence Equations

- Solving equations like $x \equiv a \pmod{m}$, additive inverses, multiplicative inverses.

Key Formula:

$$a \equiv b \pmod{m} \text{ where } a-b = m$$

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Guillaume Favre



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