

General Mathematics 1

MTHH005256

Credits: 0.5 units / 5 hours

Course Description

Students develop an understanding of fractions, decimals and percentages and develop skills using these operations. They learn to handle data through graphs, scientific notation and means of comparison; and they apply their understanding of concepts, operations and data to practical problems in interest, insurance, taxes, banking and budgeting.

Course Objectives

After you complete this course, you should be able to:

1. Read and write whole numbers, fractions, and decimals, either numerically or in words.
2. Add, subtract, multiply, and divide whole numbers, fractions, and decimals.
3. Check solutions to problems.
4. Analyze and solve word problems.
5. Solve problems involving several different operations.
6. Estimate solutions to problems.
7. Solve problems containing exponents.
8. Distinguish between prime and composite numbers.
9. Find the greatest common divisor and least common multiple of given whole numbers.
10. Solve simple percent, ratio, and proportion problems.
11. Apply your skills to graphs, data, and consumer applications.

Course Outline

Unit 1 - Operations With Whole Numbers

Lesson 1 - The Whole Numbers, Addition, and Subtraction

Lesson 2 - Multiplication and Division

Lesson 3 - Properties of Whole Numbers

Unit 2 - Fractions

Lesson 4 - An Introduction to Fractions

Lesson 5 - Addition of Fractions

Lesson 6 - Subtraction of Fractions

Unit 3 - More About Fractions

Lesson 7 - Multiplication and Division of Fractions

Lesson 8 - Complex Fractions, Checking, and Word Problems

Lesson 9 - Ratios and Proportions

Unit 4 - Decimals

Lesson 10 - Decimals and Their Addition and Subtraction

Lesson 11 - Multiplying and Dividing Decimals

Lesson 12 - Problems Using Decimals

Unit 5 - Statistics

Lesson 13 - Tables and Graphs

Lesson 14 - Scientific Notation and Data

Unit 6 - Business Applications

Lesson 15 - Interest, Taxes, and Insurance

Lesson 16 - Banks, Bonds, Bills, and Budgets

Required Textbook and Materials

None.