

Basic Mathematics 1

MTHH 001 256

Credits: 0.5 units / 5 hours

Course Description

This course is specifically designed for students who need to develop understanding and skill in using basic arithmetic. After studying the four basic operations (addition, subtraction, multiplication and division of whole numbers), students learn to solve word problems involving these operations. Interpretation of word problems is covered thoroughly and understandably. Topics such as estimating, rounding and factoring are introduced to provide a foundation for further study in the second semester of basic mathematics. **NOTE:** Although students will need the print materials to complete the course, evaluations and tests can be submitted online for grading.

Graded Assessments: 6 Unit Evaluations; 2 Proctored Progress Tests

Course Objectives

When you have completed the materials in this course, you should be able to:

1. Read and write whole numbers, either numerically or in words.
2. Add, subtract, multiply, and divide whole numbers.
3. Check solutions to problems.
4. Analyze and solve word problems involving addition, subtraction, multiplication, and division.
5. Solve problems involving exponents.
6. Distinguish between prime and composite numbers and write composite numbers as products of primes.

Course Outline

Unit 1: Whole Numbers and Their Addition

Lesson 1: The Whole Numbers

Lesson 2: The Addition Algorithm and Table

Lesson 3: Addition of Whole Numbers

Lesson 4: Addition Problems and Checking

Unit 2: Subtraction of Whole Numbers.

Lesson 5: The Subtraction Algorithm and Table

Lesson 6: Subtracting Whole Numbers.

Lesson 7: Applications of Subtraction and Checking

Unit 3: Multiplication of Whole Numbers

Lesson 8: The Multiplication Algorithm and Table

Lesson 9: Multiplying Whole Numbers

Lesson 10: Applications of Division and Checking

Unit 4: Division of Whole Numbers

Lesson 11: The Division Algorithm and Table

Lesson 12: Remainders and Division of Larger Whole Numbers

Lesson 13: Applications of Division and Checking

Unit 5: Exponents, Estimating, Rounding, and Order

Lesson 14: Exponents

Lesson 15: Order of Operations

Lesson 16: Rounding and Estimating

Unit 6: Prime Numbers and Factors

Lesson 17: Prime and Composite Numbers

Lesson 18: Factors

Lesson 19: Greatest Common Divisors and Least Common Multiples

Required Textbook and Materials

(available through Follett virtual bookstore at <http://highschool.nebraska.bkstr.com>)

None