



School of Access  
Community Learning Partnerships  
**MATH 023 S16**  
Fundamental Mathematics 3  
Course Outline – Fall 2014



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<b>Class Hours:</b> Mon & Wed 1:00-3:50 pm	<b>Office Hours:</b> By appointment	

### Calendar Description

Offered in an individualized, small-class format, MATH 023 is the third of six levels of Adult Literacy Fundamental Mathematics, which will give students a strong foundation of basic math skills, concepts, vocabulary, and problem-solving strategies. Topics: multiplying and dividing whole numbers, metric units, perimeter and area.

**Prerequisite(s):** MATH 022

### Required Materials

(a) Textbook: *Adult Literacy Fundamental Mathematics Book 3*

### Supplementary Materials

- (b) three-ring binder, lined paper, graph paper
- (c) pencils, eraser, ruler, highlighter, file cards

### Intended Learning Outcomes

Note: The complete ABE Fundamental Mathematics learning outcomes can be found in the ABE Articulation Handbook at: <http://www.aved.gov.bc.ca/abe/docs/handbook.pdf>

At completion of the course students will be able to:

1. Use math vocabulary related to multiplying and dividing whole numbers, metric units, area, and perimeter.
2. Multiply whole numbers with and without carrying.
3. Divide whole numbers with and without remainders.
4. Estimate products and quotients.
5. Determine whether a number is divisible by 2, 3, 5, 9, and 10.
6. Use multiplication or division to solve multi-step application problems.
7. Solve multi-operation application problems.
8. Calculate the area and perimeter of squares and rectangles.
9. Work independently on the materials provided, and ask for help when needed.
10. Use strategies to organize work and notes, and to manage time and math anxiety.

## Instructions for Self-Paced Learning

- (a) for each topic of the book listed below, study the explanations and examples, then work through and check your answers to as many exercise problems as you need to fully understand
- (b) ask for help when you have difficulties, or when you don't understand something
- (c) complete the Self-Tests for each topic and check your answers, then to prepare for the unit Final Test, complete the Review problems at the end of each unit
- (d) after clearing up any problems and correcting your errors, ask your instructor for authorization to write the unit Final Test
- (e) review your Final Test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the Final Test if you score less than 75%
- (f) calculators may not be used on the Final Tests, unless approved by the instructor

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within a reasonable amount of time.

## Course Content

Unit	Topic	MATH 023 course content – Book 3
<b>1</b>		<b>Number Sense</b>
	A	Emotions and Learning
<b>2</b>		<b>Multiplication</b>
	A	Multiplying Larger Numbers
	B	Two and Three Digit Multipliers
	C	Estimating Products
	D	Multiplication Problems
		Unit 2 Review
		Unit 2 Final Test
<b>3</b>		<b>Division</b>
	A	Introduction and Division Facts
	B	Divisibility
	C	Dividing Larger Numbers by One Digit Divisors
	D	Dividing by Two and Three Digit Divisors
	E	Estimating Quotients
	F	Division Problems
	G	Mixed Problems
		Unit 3 Review
		Unit 3 Final Test

Unit	Topic	MATH 023 course content – Book 3
4		Change, Time and the Metric System
	A	Counting to Make Change
	B	Making Change
	C	Converting Units of Time
	D	The Metric System
		Unit 4 Review
		Unit 4 Final Test

### Basis of Student Assessment (Weighting)

The MATH 023 course grade is based on the average of all unit Final Test passing scores.

### Grading System

Percentage	Grade	Grade Point Equivalency
90–100%	A+	9
85–89%	A	8
80–84%	A–	7
77–79%	B+	6
73–76%	B	5
70–72%	B–	4
65–69%	C+	3
60–64%	C	2
50–59%	D	1
<50%	F	0
In Progress	IP	N/A

## **Recommended Materials or Services to Assist Students to Succeed Throughout the Course**

### **LEARNING SUPPORT AND SERVICES FOR STUDENTS**

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at:

<http://www.camosun.ca>

### **STUDENT CONDUCT POLICY**

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section, or the College web site at:

<http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf>

### **STUDENT GRADING POLICY**

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:

<http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf>

### **ACADEMIC PROGRESS POLICY**

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section or the College web site at:

<http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf>