

Adult Basic Education (ABE)

Level III Mathematics

Mathematics 3102B

Real-Life Decisions/Properties of Figures

Study Guide

Resource: *Math at Work 12*. McGraw-Hill Ryerson. 2012. ISBN 13:978-125901238-9.

Level III General College Profile Mathematics (General)

Mathematics 1102A: Consumerism and Travel/Measuring Length/Measuring Area

Mathematics 1102B: Getting Paid/Angles

Mathematics 1102C: Pythagorean Relationship/Trigonometry

Mathematics 2102A: Surface Area/Drawing and Design/Volume and Capacity

Mathematics 2102B: Interpreting Graphs/Banking and Budgeting

Mathematics 2102C: Slope/Right Triangles and Trigonometry

Mathematics 3102A: Measurement and Probability/Data/Linear Relationships

Mathematics 3102B: Real-Life Decisions/Properties of Figures

Mathematics 3102C: Transformations/Trigonometry



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General Information

Introduction

Mathematics 3102B when completed with **Mathematics 3102A and C** is equivalent to the Newfoundland and Labrador senior high school **Mathematics 3202 (Applied)** course. Students must have successfully passed **Mathematics 3102A** in order to do this course.

Resources

The student resource for this course is: *Math at Work 12. McGraw-Hill Ryerson. 2012. ISBN 13:978-125901238-9.*

Your instructor may also supplement with other resources at his/her discretion.

Study Guide

This Study Guide is intended to make it possible for you to work independently in ABE. You may be able to work on your own for certain periods of time. All students doing this course in Newfoundland and Labrador use this Study Guide. Please ensure your instructor is aware of your progress in this Study Guide. Ask your instructor for assistance whenever you feel you need help.

The Study Guide is organized in two columns:

Required Work This column provides a list of all the work required to be completed for the course. Your instructor may supplement with additional items or make small changes to the required work as deemed appropriate.	Notes This column provides additional information that will help you complete the required work.
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Recommended Evaluation

Written Notes (Including all the Required Work)	10%
Assignments	30%
Tests/Quizzes	60%
Total	100%

Instructors have the discretion to make minor changes to this evaluation scheme.

Unit 1: Real-Life Decisions

Required Work	Required Notes
1. Read pages 166-197, and the complete Get Ready, pages 168-169.	
2. Read pages 170-174, and then complete 1-7, pages 175-176.	Define lease and depreciation.
3. Read pages 177-179, and then complete 1-8, pages 180-182.	Define lessee and residual value.
4. Read pages 183-185, and then complete 1-8, pages 186-187.	
5. Complete 1-7, pages 188-189.	Define fixed costs and extended warranty.
6. Read pages 190-193, and then complete 1-8, pages 194-195.	Define variable costs.
7. Read pages 196-198, and then complete 1-6, page 199.	
8. Complete 1-7, pages 200-201.	Define expenses, revenue and profit.
9. Read pages 204-206, and then complete 1-6, pages 207-208.	Define loss, net income and break-even point.
10. Read pages 209-211, and then complete 1-10, pages 212-214.	
11. Complete 1-8, pages 214-215.	
12. Complete Skill Check, pages 216-217.	

Unit 1: Real-Life Decisions

Required Work	Required Notes
<p>13. Assignment #1: Complete Test Yourself, pages 218-219.</p> <p>14. Test #1: Your instructor will give you Test #1.</p>	<p>This assignment will be graded and is part of the course evaluation.</p>

Unit 2: Properties of Figures

Required Work	Required Notes
1. Read pages 222-223, and then complete Get Ready, pages 224-225.	Define regular polygon, equilateral triangle, diagonal, isosceles triangle, obtuse angle, acute angle, isosceles trapezoid, parallelogram, scalene triangle and tessellate.
2. Read pages 226-229, and then complete 1-10, pages 230-232.	
3. Read pages 233-234, and then complete 1-6, pages 235-236.	
4. Complete 1-9, pages 236-237.	
5. Read page 240, and then complete 1-9, pages 241-243.	
6. Read page 244, and then complete 1-6 pages 245-246.	
7. Read pages 248-250, and then complete 1-6, pages 251-252.	
8. Read pages 253-254, and then complete 1-7, pages 255-256.	
9. Complete 1-6, page 257.	
10. Complete Skill Check, pages 258-259.	Define line symmetry and line of symmetry.
12. Assignment #2: Complete Test Yourself, 1-8, pages 260-261.	
13. Test #2: Your instructor will give you Test #2.	

<p>14. Final Exam: Your instructor will give you the final exam on the entire course.</p>	
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