Grande Prairie Regional College
Academic Upgrading Department

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INTRODUCTION TO MATH 0120

This course is divided into 9 separate units called modules. The instructions are given in the modules along with several examples and exercises. Study the instructions and work through the examples before starting the exercises. The answers for the exercises are given at the end of the module. Check your work **often. The key to success** in working with modules **is to ask questions** whenever you have difficulty understanding the instructions, the examples or the exercises. **Do not hesitate to ask for help.** As well, the instructor will teach a mini lesson daily to clarify the more difficult concepts and also to keep you on schedule.

After each module you must write a test. A passing mark of 50% is expected on the test before continuing on to the next module. Students unable to attain this mark should review the material and rewrite the test. The first and second test marks will be averaged. (Students intending to proceed to Math 0130 should aim for a minimum of 70% on each module test.) Students writing any module test on or before the scheduled date will receive a bonus of 2%. Any test written late must be written outside of class time.

All students will be required to write a 50 minute midterm on a compulsory date (October 25) which will cover the first five modules. Upon completion of all modules, the student will write a three hour final exam.

Consult your instructor immediately if you find yourself unable to keep up to the pace of the class. It may be necessary to reassess your math skills to ensure that you are placed in a course where you can be successful.

Your final mark is determined by:

9 module tests	36%
Midterm	20%
Attendance/Participation	4%
Final Exam	40%

You will need a scientific calculator for this course.

Module	TOPIC/DESCRIPTION	Test Date	Your mark
1	Equations and Inequalities -solving linear equations and inequalities -graphing linear equations and inequalities -absolute value equations and inequalities		
2	Systems of Equations - solving systems of equations by graphing, substitution, and elimination; applications		
3	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations		
4	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations		
5	Geometry -basic theorems -circle terminology; properties of angles and chords in a circle; tangents to a circle		
	MIDTERM EXAM	**OCT. 25**	
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations		
7	Quadratic Functions - graphing; completing the square; characteristics; applications		
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications		
9	Polynomial Functions & Equations - synthetic division - remainder & factor theorems; equations and graphs		
	FINAL EXAM - 3 HOURS	**TBA**	