MTH 098 – Test #1 Guide Sheet

(Thursday February 16th → 12:30 – 1:20 pm)

Expect to see questions like:

- page 27: 11 – 43
- page 28: 55 – 63, 71, 73
- page 34: 17 – 49
- page 39: 11 – 39, 57 – 65
- page 48: 13 – 67
- page 57: 13 – 67
- page 73: 7 – 31, 47 – 65
- page 74: 103 – 115, 137
- page 80: 1 – 13, 23 – 53
- page 88: 9 – 95, 101, 103, 117, 119, 121, 131 – 137
- page 99: 9 – 37, 43, 45, 59 – 73, 89 – 109
- page 106: 23 – 61
- page 113: 9 – 53
- page 120: 7 – 65
- page 130: 11 – 19, 27 – 39, 47 – 57, 63
- page 140: 11 – 19, 31 – 39, 45 – 55, 89
- page 153: 37 – 43, 49, 51, 55, 61, 65
- page 161: 11 – 29, 33, 35, 41, 49, 55
- page 409: 9 – 21
- page 418: 25, 27, 39, 43
- Class Practice on Integers
- Class Practice on Fractions
- Class Practice on Simplifying Expressions #1
- Class Practice on Simplifying Expressions #2
- Class Practice on Equation Solving (1), (2), and (3)
- Class Practice on Formulas #1 and #2
- Class Practice on Ratio and Proportion
- Class Practice on Inequalities
- Class Practice on Graphing #1
Be able to:

- Add, subtract, multiply, and divide integers, fractions, and mixed numbers
- Evaluate numerical expressions (PEMDAS)
- Evaluate algebraic expressions, knowing the value(s) of the variables(s)
- Name which of the properties of real numbers (pages 76 – 79) is illustrated by a given statement
- Simplify algebraic expressions by using the distributive property and by combining like terms wherever possible
- Solve linear equations containing one variable and be prepared to show the operation(s) that you are performing on both sides of the equation
- Determine whether a linear equation containing one variable is a conditional equation, an identity, or a contradiction and be able to explain how you know
- Use formulas to determine the value of a variable
- Solve a formula for a variable
- Set up and solve proportions
- Solve inequalities containing one variable and also to show the solution on a number line
- Graph linear equations by point plotting