Math 10043 Information on Exam 1, Chapters 1, 2, 3, & 10

•There will be approximately 14 problems on Exam 1. First will be true/false, matching and/or multiple choice, covering definitions and other short-answer kinds of questions.

•Make sure to **show all required work! NO** unsupported answers will be accepted! Relative frequencies should be answered to **at least 3** decimal places (or reduced fraction). DO NOT give percents! Be careful of your rounding. When finding standard deviation do NO intermediate rounding.

•Make sure that you can use your calculator quickly without your notes.

•**REMEMBER**: taking an exam involves making judgments. In order to make good judgments, you need sleep and fuel for your body and brain (i.e. breakfast).

TOPICS COVERED

Ch. 1: Definitions (True/False, Matching or Multiple Choice).

Ch. 2: Definitions; frequency distributions, including class midpoint & relative frequency; bar graphs, histograms; stem & leaf plots; dot plot.

Ch. 3: Definitions; mean, median, mode, midrange; range; standard deviation; mean and standard deviation of frequency data (using 1-VAR STAT); Empirical Rule; z scores; quartiles, five-number summary, interquartile range.

Ch. 10: Scatter plots; finding and interpreting the correlation coefficient; finding the regression equation; making predictions when appropriate.

FORMULAS GIVEN ON EXAM 1

•SUMMING A LIST ON THE CALCULATOR:

***If you are on the list screen, you must do 2ND QUIT
2ND LIST key [the LIST key is the same as the STAT key]
go to MATH menu
choose SUM (option 5) 2ND L# ENTER

Variance & standard deviation:

$$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1} \qquad s = \sqrt{s^2}$$

z-score:

$$z = \frac{x - \bar{x}}{s}$$