

STUDY GUIDE FOR TEST I
MATH 1401

Test I will consists of 22 multiple-choice questions. Each question will be worth 5 points. The total number of points on the test is 110. Thus, you have a “built in” 10-point bonus. Please bring a Scan-tron form and a pencil to the test. **The test will be open notes.**

NOTE: Page number and section number references are from the e-text of *Essentials of Statistics*, 6th edition by Triola.

Question No.	Objective(s)
1-3	Determine if data is quantitative or categorical. Determine if qualitative data is continuous or discrete, Determine the level of measurement of data. [Section 1-2, pp. 22-24, #2, 3, 13-28; Review Exercises, p. 36, #7(b), 9]
4	Determine the percentage from given quantities. Determine a quantity from a given percentage. [Section 1-1, pp. 12-13, #29-36; Review Exercises, p. 36, #8]
5	Determine whether a description corresponds to an experiment or an observational study. Determine the type of observational study. [Section 1-3, pp 32, 34; #6, 29-32]
6-7	Determine the type of sampling used. [Section 1-4, pp. 32-33, #9-20; Review Exercises, p. 36, #7(d)-(e), 9]
8-11	Identify features of a frequency distribution. Find the relative frequency from a frequency distribution. [Section 2-1, pp. 48-49, #5-8, 19, 20]
12-13	Identify features of a frequency histogram. [Section 2-2, pp. 55-56, #5-8]
14-18	Find the mean and standard deviation of sample using a calculator. Find the median, mode, and midrange of a sample. [Section 3-1, pp. 92-95, #5-24, 29-32; Section 3-2, pp. 107-111, #5-24, 37-40; Review Exercises, p. 127, #1(a)-(f).]
19-20	Find the raw score corresponding to a percentile. Find the percentile of a raw score. Calculate the quartiles for a set of data. [Section 3-4, pp. 126, #17-28; Review Exercises, p. 127, #1(i)-(j)]
21	Find a z score corresponding to a data value. Use the z score to determine if the data value is significant or not. [Section 3-3, pp. 124-125, #5-16; Review Exercises, p. 127, #2, 5]
22	Construct a boxplot [Section 3-3, p. 126, #29-32; Review Exercises, p. 127, #3]