

Instructions: Exam 1 is going to contain a mix of free response questions, fill in the blank and multiple choice questions. It will be on **Wednesday, September 18th during class time**. You will be allowed to use a one page summary (not front and back) and your calculator. You will turn in the summary with the exam.

In preparation for the exam, you may wish to do the following:

- Review the concepts learned in each section and as you go, make your own one page summary. This will help you have all the things you need to remember in one place.
- Review the exercises used as examples during the lectures.
- Review problems from the homeworks.
- Go over this Study Guide and make sure all the concepts/formulas look familiar and you know when/how to use them.
- Finally, after you have studied, take the practice exam. This assignment is not required. It is there for you to use as practice after you have studied. Do not use the Practice as your only preparation for the Exam; use it as a study tool.

Exam 1 will cover Chapter 1 through Chapter 3, only Section 3.1.

1. Chapter 1 topics

- Population versus sample
- Parameter versus statistic
- Quantitative versus Qualitative Data
- Discrete versus Continuous Quantitative Data
- Sampling Method (Simple Random, Stratified, Cluster, Systematic, Convenience)

2. Chapter 2 topics

- Frequency Distribution
 - Ungrouped
 - Grouped
 - * Class Limits versus boundaries
 - * Class width
 - * Midpoints
 - * Steps to create grouped freq dist
 - Categorical
- Relative frequency
- Frequency polygon
- Histogram and Shape of a Histogram
- Ogive
- Pie Chart
- Pareto Chart
- Bar graph
- Time Series Graph
- Stem-n-leaf plot

3. Chapter 3

- Mean, Median, Mode, Midrange
- Mean of grouped frequency distribution.