

Math 1231 Spring 2012: Topics/Review for Test #1 (Chapters 1 – 3)

Suggestions for studying:

- Review the topics listed below and look up anything that seems unfamiliar
- Work the listed review problems
- Since the review problems do not cover all topics, spend some time reviewing your notes and the StatsPortal assignments.
- Seek help. You can email me, or come to office hours. There should also be tutoring available in the Center for Academic Success.

Topics

- Be able to identify/distinguish categorical vs. quantitative variables
- Identify the individuals in a set of data
- Know which types of graphs are appropriate for categorical or quantitative data
- Be able to construct a stem plot
- Read information provided by a pie chart or bar graph
- Given a histogram, be able to find the median, range, percent in an interval and total number of data
- Decide which measures of center and spread are more appropriate to use with symmetric and skewed distributions
- Use a stemplot to determine the shape, median, quartiles, etc.
- Use boxplots to compare the median and variability of sets of data
- Read a boxplot to find the five-number summary
- Calculate the median, Q1, Q2, IQR, 5-number summary and mean of a set of data
- Understand the meaning of standard deviation
- Perform the outlier test
- Know how the mean and median compare for symmetric or skewed distributions
- Use the 68-95-99.7 Rule
- Know how to calculate a z-score, what it means, and how to find the percentage above, below or between given data values
- Know the use/meanings of symbols μ , σ , \bar{x} , s

Suggested Review Problems

Chapter 7 Exercises (Note: Chapter 7 contains summaries/review for Chapters 1 – 6)

Pg. 182: 7.1, 7.3, 7.5, 7.8, 7.9, 7.11, 7.13 – 7.18