Math 121 - Midterm 2 Suggested Study Problems

Here are problems that are similar to the ones you might see on the exam. Be sure to also review old homework and quiz questions too. The exam will have both multiple choice and short answer questions.

Sampling Cht. 8# 8.17, 8.23, 8.43

> *Make sure you know the difference between random error and bias. What is the best way to avoid bias? What is the best way to minimize random error?*

Experiments Cht. 9# 9.19, 9.21, 9.23, 9.25, 9.27

> *Know the difference between explanatory variables, response variables, and lurking variables.*

Basic Inference: Confidence Intervals Cht. 14 & 15# 14.27, 15.19, 15.21

Basic Inference: Hypothesis Testing Cht. 14 & 15# 14.25, 14.29, 14.31, 14.33, 15.23, 15.25

t-Distribution Cht. 17# 17.15, 17.17, 17.19, 17.21, 17.23

> *Make sure you know when to use the t-distribution (t-values) instead of the normal distribution (z-values).*

Two Sample Inference About the Mean Cht. 18# 18.17, 18.19, 18.21, 18.23

Terminology The end of each chapter has a one page chapter summary. Make sure you read this, and are familiar with all of the terms that are mentioned in bold-face.