

## Math 121 - Midterm 3 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.

**Basic Inference: Confidence Intervals** 14.11, 14.13, 14.15, 14.17; 16.21

**Basic Inference: Hypothesis Testing** 15.19, 15.21, 15.23, 15.25, 15.27; 16.19, 16.23, 16.25

*Memorize the definition of a p-value: It is the probability of getting a result at least as extreme as what we got, if the null hypothesis is true.*

**t-Distribution** 18.15, 18.17, 18.19, 18.21, 18.23

*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** 19.17, 19.19, 19.21

**Inference About Proportions** 20.15, 20.17, 20.21

**Two Sample Inference About Proportions** 21.9, 21.11

**Choosing the Right Inference Procedure** 22.41, 22.43, 22.45

**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.