Summary Assignment
Math 58

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Summary of the Chapter

1. What type of data are we analyzing (e.g., how many variables, continuous, categorical, binary, etc.)?

2. What is (are) the summary statistic(s) (remember: a statistic is a number that describes the sample, there are symbols for most of the statistics covered)?

3. What is (are) the population parameter(s) (remember: a parameter is a number that describes the population, there are symbols for most of the parameters covered)?

4. How are the **data** graphed? (Note: a graph of the data is quite different from the sampling distribution, which we often look at graphically.)

5. Using one example from the textbook:

   - Describe the scenario given by the null hypothesis (if relevant).

   - Sketch the null sampling distribution with your pencil. Mark a few places on the x-axis to provide a scale. If the null sampling distribution is discrete, yours should look discrete, if it is continuous, your sketch should be continuous. What is the random thing (i.e., statistic) that has a sampling distribution? (I.e., what variable is on the x-axis?)

   - Is the original research questions addressing estimation or a particular hypothesis? Explain.

   - Give one shortcoming of the study (e.g., data collection, measurement difficulty, etc.). Explain why it is a shortcoming.