

# Final Lab Due Dates & Ruberics

\*\*This may be done in groups of 2 (no more) & both people's names will be included on Labs\*\*

## Final Lab Part 1 (worth 1 lab credit)

Due by Monday, May 13

You will give me a proposal for your final lab paper, which will include:

- 1) All visually descriptive & summary statistics given
- 2) Choice of confidence intervals & the formulas & critical values that will be used to give them
- 3) Choice of test of means & formulas & test statistic's distribution clearly stated
- 4) Choice of test of 1 proportion & formulas & critical value given
- 5) Choice of test of 2 proportions & formulas & p-bar given
- 6) Choice of Chi-Square Test with two-way table of data & formula & critical values
- 7) Indication that EC is planned & choice for Chi-Square (same info as #5)

## Final Lab Part 2 (worth 2 non-droppable lab credits)

Due on Wednesday, May 22 (at the time of the final)

A paper containing a minimum of 7 paragraphs & appendices detailing

- a) An introduction stating the method of collection, assumed population and questions to be answered and the location of the summary of data and appendix reference to the original survey. A thread of thought tying your choices of hypotheses tests and confidence intervals together is required as well with a reference in the appendix to the document containing the basis for the hypotheses.
- b) A body paragraph exploring the conformity of the sample to the assumed population referring to both summary statistics and confidence intervals to indicate whether the sample is indicative of the population. If the sample is not indicative of the population some potential sources of non-sampling error should be detailed. Reference to an appendix containing descriptive & summary statistics as well as confidence intervals should be made. The actual statistics should not be in the body of the paper.
- c) A body paragraph exploring the question being answered concerning the hypothesis about a mean. Reference to an appendix containing the test should be made. The actual statistics should not be in the body of the paper. Only the original question and the formal conclusion should be stated in the body.
- d) A body paragraph exploring the question being answered concerning proportions. Reference to an appendix containing the test should be made. The actual statistics should not be in the body of the paper. Only the original question and the formal conclusion should be stated in the body.
- e) A body paragraph exploring the question being answered concerning a test of 2 proportions. Reference to an appendix containing the test should be made. The actual statistics should not be in the body of the paper. Only the original question and the formal conclusion should be stated in the body.
- f) A body paragraph exploring the question being answered concerning a Chi-Square test. Reference to an appendix containing the test should be made. The actual statistics should not be in the body of the paper. Only the original question and the formal conclusion should be stated in the body.

- g)-h) Optional EC, is 2 additional paragraphs containing the extra Chi-Square test and the ANOVA. Reference to an appendix containing the test should be made. The actual statistics should not be in the body of the paper. Only the original question and the formal conclusion should be stated in the body.
- g) or i) A conclusion summarizing the purpose of the questions of study and the findings of your study. A few well thought out closing remarks about how the study could be improved in the future – ways to reduce non-sampling error.

**Rubric Notes:**

The Final Lab Part 1 will be graded based upon the completion of the 7 required elements

The Final Lab Part 2 will be graded based upon three criteria:

70% Statistical accuracy

20% Inclusion of all required portions (leaving out any required portion can reduce the grade to 0%)

10% Readability

The EC will count for another lab and will be based on

80% Statistical accuracy

10% Inclusion of required portions (will give a zero if one is not included)

5% Readability & flow with the remainder of the report