

Rasu1

M135 Elementary Statistics Project Rubric (Option B)

Project Element	Points	What I'm looking for
Introduction Research Objective Population Survey Question or observation	10	-Introduce the paper by: -State what you are trying to find/show by doing this project. ✓ -Clear statement of the population ✓ -Clearly state your survey question or observation. ✓
Null hypothesis proportion from Conversation with instructor or the Internet	1	-If you got your Null percent from me, say so -If from the internet, reference the site.
Null and Alternative Hypothesis	4	-Give each hypothesis as a statement. ✓ -Give each hypothesis using the correct mathematical symbols. Fix
1.4/1.5 Assignment and Explanation of survey	10	-Submit 1.4/1.5 assignment. Details in instructions. -Clear Statement of Where/When/How you conducted your survey. ✓ -How was your survey random? ✓ -Extra Credit(5 pts): Give a detailed explanation of how you used any techniques from section 1.4
Data and statistics	5	-Give me: (I'll check this) a) n, x ✓ b) Sample proportion, "p hat" ✓ c) Interpret what your "p hat" represents. ✓
Graph	10	-Give one graph with two pairs of percents. The first pair from the null hypothesis(yes/no), the second pair from the sample(yes/no).
Central Limit Theorem	10	-Confirm that your sample is large enough by showing that $np(1 - p) \geq 10$ ✓ -Give the mean and standard deviation of the sampling distribution. (Formulas on pg. 382) ✓
Confidence Interval (95% confidence)	20	-Show the calculations for lower and upper bounds. (95% confidence interval) ✓ -Clearly state the interpretation of the interval ✓
Hypothesis Test (At the 0.05 level of significance)	25	-Test the hypothesis using the Critical Value method(Critical Value/test stat/conclusion) -Test the hypothesis using the P-value method. (Test stat/p-value/conclusion) -A clear statement saying that you rejected your null hypothesis or not. -A clear follow up of what this rejection or not means to you or the population.
Conclusion	5	-Conclude the report/paper. What conclusion can you draw from the results? Anything you would do different? Anything interesting?
Overall Report	5	-Typed report -Organized in order. (Order from this rubric) -Spelling and grammar.