

MAT 243 Project Two Rubric (SA)

Activity: 5-5 Project Two Submission

Course: MAT-243-J3996 Applied Statistics for STEM 23EW3

Name: Traver Yates

Criteria	Exemplary	Proficient	Needs Improvement	Not Evident	Criterion Score
Python Script: Hypothesis Testing	10 points N/A This level is not applicable for grading of this criterion.	10 points Accurately performs hypothesis tests for one population parameter and for the difference in two population parameters by executing the appropriate functions in the programming environment	5.5 points Shows progress toward proficiency, but with errors or omissions ✓	0 points Does not attempt criterion	5.5 / 10
Summary Report: Hypothesis Tests for the Population Mean	25 points Exceeds proficiency by writing with exceptional clarity, insight, and mastery of statistical terminology	21.25 points Reports results of hypothesis tests for the population mean by discussing all steps and interpreting results in terms of statistical significance	13.75 points Shows progress toward proficiency, but with errors or omissions ✓	0 points Does not attempt criterion	13.75 / 25

Criterion Feedback

No Null and Alternative Hypotheses in statistical notation.

"We calculated the test statistic to test the hypothesis, which was 91.19." - It is not right. It is 43.55.

There is only one table. There must be two tables.

"The test statistic calculated was -13.66" - It is not correct. It is -7.44.

Criteria	Exemplary	Proficient	Needs Improvement	Not Evident	Criterion Score
Summary Report: Hypothesis Test for the Population Proportion	25 points Exceeds proficiency by writing with exceptional clarity, insight, and mastery of statistical terminology	21.25 points Reports results of hypothesis test for the population proportion by discussing all steps and interpreting results in terms of statistical significance	13.75 points Shows progress toward proficiency, but with errors or omissions ✓	0 points Does not attempt criterion	13.75 / 25
Summary Report: Hypothesis Test for the Difference between Two Population Means	25 points Exceeds proficiency by writing with exceptional clarity, insight, and mastery of statistical terminology	21.25 points Reports results of hypothesis test comparing two population means by discussing all steps and interpreting results in terms of statistical significance	13.75 points Shows progress toward proficiency, but with errors or omissions ✓	0 points Does not attempt criterion	13.75 / 25
Summary Report: Introduction and Conclusion	10 points Exceeds proficiency by writing with exceptional clarity, insight, and mastery of statistical terminology	8.5 points Communicates all ideas by presenting context, as well as summarizing and interpreting the practical implications of the results	5.5 points Shows progress toward proficiency, but with errors or omissions ✓	0 points Does not attempt criterion	5.5 / 10

Criteria	Exemplary	Proficient	Needs Improvement	Not Evident	Criterion Score
Articulation of Response	5 points Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner	4.25 points Clearly conveys meaning with correct grammar, sentence structure, and spelling, demonstrating an understanding of audience and purpose	2.75 points Shows progress toward proficiency, but with errors in grammar, sentence structure, and spelling, negatively impacting readability ✓	0 points Submission has critical errors in grammar, sentence structure, and spelling, preventing understanding of ideas	2.75 / 5

Total	55 / 100
-------	----------

Overall Score

Exemplary

Proficient

Needs Improvement ✓

Not Evident