

	<i>Unsatisfactory</i>	<i>Average (minor errors)</i>	<i>Excellent (minimal or no errors)</i>
<u>Data Description (20 points)</u>			
Data Source & Variable Descriptions	Dataset is not mentioned and variables are not described 0 points	Either dataset or variables are not mentioned/described 3 points	Dataset is mentioned and variables are described so the reader understands the context of the summary statistics 5 points
Summary Statistics	Fewer than three variables are summarized and insufficient stats are provided. 0 points	Either fewer than three variables are summarized OR insufficient stats are provided for the chosen variables 3 points	Student summarized three or more variables and provided the appropriate statistics for each variable. Appropriate statistics include: mean, median, standard deviation, min, max and observations. 5 points
Summary Statistics Discussion	Do not discuss the statistics outside of reporting their values. 0 points	Discuss one statistic, but discussion is not insightful and does not reveal anything interesting about the variable to the reader. 3 points	Discusses one or more variables and/or statistics; fully describing the distribution of the variable—mentioning aspects such as skewness and relative variation 5 points
Graph	No graph provided 0 points	Graph provided but not very informative. Doesn't reveal anything to the reader that the reported statistics don't already show. Graph is not discussed in the paper. 3 points	One or more graphs provided in the body of the paper. The graph reveals something interesting to the reader, and it has appropriate labels. A discussion of the graph is included with the summary stats discussion. 5 points
<u>Statistical Analysis (20 points)</u>			

Confidence Interval (C.I.)			
Calculation	Student reports lower and upper boundary of C.I. without any explanation of where those numbers come from. Additionally, they don't note what variable the C.I. is for. 0 points	Student reports C.I. boundaries and the variable. They also state the significance level, but they do not discuss the critical values or how the C.I. is calculated 6 points	Student reports C.I. boundaries and what variable the C.I. is for. They also report the significance level, the critical value, the distribution that the critical value comes from along with how they calculated the C.I. 10 points
Interpretation	Student does not discuss the interval outside of reporting the boundaries. 0 points	Student interprets the interval, but does so incorrectly or insufficiently. 6 points	Student interprets the interval correctly and sufficiently in the context of the data. "We are XX% confident this interval contains the true population mean..." 10 points
<u>OR</u>			
Hypothesis Test (H Test)			
Calculation	Student does not report hypotheses or explain test statistic. Reader cannot follow the testing process from reported information. 0 points	Student reports hypotheses and variable being tested along with significance level. While portions of the hypothesis testing process are outlined, the reader can't quite follow the thought process. Conclusion may be incorrect. 6 points	Hypotheses for variable parameter are stated along with significance level. The student walks through the testing process reporting the appropriate metrics for each step. If conducting the test via Critical Value Method —they report the critical values, test type (one-tailed or two-tailed, z or t), and test statistic. If conducting the test via P-Value Method —they report the test type, test statistic and p-value. If using the Confidence Interval Method —report the C.I. including how it is calculated. 10 points

Interpretation	Student does not report outcome of the H test. 0 points	Student reports outcome of H test, but is incorrect AND/OR they do not explain how they came to their conclusion. 6 points	Student states the outcome of the H test (reject or do not reject) and explains in detail how they arrived at the conclusion either through comparing the test statistic to the critical value, p-value to significance level, or hypothesized claim to a Confidence Interval. 10 points
<u>Other</u>			
Part I Turned In	Did not submit Part I in Canvas 0 points	-	Did submit Part I in Canvas 5 points
Grammar, etc.	Paper is hastily written with many grammatical errors, typos and run-on sentences. Paper is not organized in paragraphs and difficult to read. 0 points	Paper has some typos and grammatical errors, but reader can follow thought processes. 3 points	Paper has minimal typos and correct grammar. Tables, paragraphs and images are organized and easy to follow 5 points

Total Points Possible: 50