

Week 7: Apply Your Skills Calculator Instructions

Save this file with your last name added to the end of the filename, and save periodically as you work - including one last time before submitting the file for grading.

IMPORTANT: You will be using the statistics results you obtained with your sample data in the Week 3: Apply Your Skills assignment this Week 7 assignment. If you did not complete the Week 3: Apply Your Skills assignment, you will need to complete it now.

Remember to enter values only in the green cells or in the provided text boxes to answer the questions. To see the "yellow cell" values update, use the Tab or Enter key after typing the value(s).

If you have questions while working on this assignment, please reach out to your professor for guidance.

Introduction

You will be constructing a confidence interval and conducting a hypothesis test to discover whether your sample of 30 taken in the *Week 3: Apply Your Skills* assignment supports or fails to support the claim by the website owners that the population mean number of visitors to the website per day is 354. You must use the mean and sample standard deviation that you calculated in your *Week 3: Apply Your Skills* assignment. Talk to your professor if you need help with this or with any of the following steps.

Preparation

Open your submission for the *Week 3: Apply Your Skills* assignment

Enter your name and date in the Confidence Interval worksheet and the Hypothesis Test Calculator worksheet tabs in this Week 7 Your Skills workbook.

Save this Week 7 file if you have not already done so.

Familiarize yourself with the website owner's claim. This assignment is based on that claim:

Claim: The owner of the website claims that the population mean visitors to the website is 354

Grading Rubric (see the Grading Rubric worksheet)

Tabs in this workbook:

Overview (this tab)

Grading Rubric

Confidence Interval:

1. Confidence Interval for μ
2. Minimum Sample Size μ

Hypothesis Test Calculator:

1. Test Statistic and p-values

REMEMBER for the "Use t or z" dropdown selection on these tabs:

If sample standard deviation is known, use t.

If population standard deviation is known, use z.

See the **Week 7: Apply Your**

Category
Sample Data / Confidence Interval Calculations
Confidence Interval Questions
Hypothesis Test Calculations
Hypothesis Test Questions
Overall Conclusion
Communication Skills
TOTAL

ur Skills Grading Rubric below:

Description (Week 7: Apply Your Skills)
The student used the same sample data's descriptive statistics values obtained in the Week 3: Apply Your Skills assignment. With those Week 3 results, the student constructed the correct confidence interval.
The student provided a convincing explanation as to what the confidence interval reveals about the validity of the claim by answering the four (4) questions on the <i>Confidence Interval</i> worksheet.
The student correctly set up the values from the sample (their Week 3 results) in the <i>Hypothesis Test Calculator</i> worksheet.
The student correctly answered the five (5) hypothesis test questions based on their sample.
The student made a convincing argument about what the investigation revealed about the validity of the claim, and the business decision they would recommend that the website owner make based on the investigation as a whole. The student answered the two (2) Overall Conclusion questions found on the Hypothesis Test Calculator worksheet.
Writing, grammar, clarity, logic, cohesiveness, and adherence to the format described in the instructions.