

To do: Make a submission

Opened: Thursday, 10 April 2025, 1:05 PM

Due: Friday, 18 April 2025, 12:55 PM

You are required to solve Part 1 and Part 2 of the Learning Journal Assignment

PART I:

A sample was taken randomly of 675 families in the Dominican Republic, 232 responded they could not afford \$300 unexpected expenses without tapping into loans.

1. Define the population in this survey.
2. What is the population parameter estimated in this survey?
3. What is the point estimate for the parameter?
4. What is the statistic used to measure the uncertainty of the point estimate? Compute the statistics.
5. Consider the true population value is found to be 40%. Would the resulting value change much if we were to use this proportion to proportion to recompute the value of the statistic in (d) using  $p=0.4$ ?

PART II:

A cinema theatre conducted a random sample on 504 viewers over a period of a year and found that 124 of them made their visit because of a coupon they had received in their mail. Construct a 95% confidence interval for the fraction of all those viewers who made a visit because of a coupon they'd received in the mail.

This assignment will be assessed by your instructor using the rubric below.

**Note:** Always prioritize using JASP to retrieve values, as it will be a key tool for the final exam.

Add submission

Submission status

|                   |                                   |
|-------------------|-----------------------------------|
| Attempt number    | This is attempt 1.                |
| Submission status | No submissions have been made yet |
| Grading status    | Not graded                        |
| Time remaining    | 5 days 21 hours remaining         |

Grading criteria



|  |   |   |   |  |  |
|--|---|---|---|--|--|
| Part 1- Estimation of population parameter and statistic | Accurately explains all 5 aspects (a) – (e) correctly.<br><b>75 points</b>                            | Accurately explains any 4 aspects (a) – (e) correctly and answered the remaining aspects incorrectly.<br><b>60 points</b> | Accurately explains any 2 aspects (a) – (e) correctly and answered the remaining aspects incorrectly.<br><b>30 points</b> | Accurately explains any 1 aspect (a) – (e) correctly and answered the remaining aspects incorrectly.<br><b>15 points</b> | Unable to meet any of the preceding levels. Or copied from available resources<br><b>0 points</b>                            |
| Part 2- Construction of confidence interval              | Correctly calculates the confidence interval by showing all steps of calculation.<br><b>25 points</b> |   | Correctly calculates the confidence interval. However, only a few steps are shown for calculation.<br><b>15 points</b>    |  | Unable to meet any of the preceding levels or provides the same explanation available from the resources.<br><b>0 points</b> |