Asgn 8 - Survey Final Report

Fill in the blanks. Show your work on the second sheet.

Describe your sampling technique.

Survey 1 - Population Proportion

Sample Stats
\[ n = \text{__________} \]
\[ \hat{x} = \text{__________} \]
\[ \hat{p} = \text{__________} \]

Results
- We estimate that \( \text{_______\% \pm \text{_______}\%} \) of students at Brcc \( \text{__________} \)

- Our sample evidence \( \text{________________} \) (supports/ fails to support) our claim that
  \( \text{________________________________________________} \).

Survey 2 - Population Mean

Sample Stats
\[ n = \text{__________} \]
\[ \bar{x} = \text{__________} \]
\[ s = \text{__________} \]

Results
- We estimate that the mean \( \text{________________} \) of students at Brcc is \( \text{__________} \) \( \text{__________} \) \( \text{__________} \) (enter the units).

- Our sample evidence \( \text{________________} \) (supports/ fails to support) our claim that
  \( \text{________________________________________________} \) (repeat claim).
**Survey 1 - Population Proportion**

Estimate

Calculate a 95% confidence interval estimate for the percentage asked about in the Research Question. Show your work in the space below, including calculator function name and input, the (xxx,xxx) interval from the calculator, and the work done to calculate the margin of error.

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**Claim**

Use a significance level of $\alpha = 5\%$ to test your Claim. Show your work in the space below, including setting up the null and alternative hypotheses, the calculator function name, the calculator input, the p-value from the calculator, the comparison of the p-value with the significance level, and whether or not to reject the null hypothesis.

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**Survey 2 - Population Mean**

Estimate (Same directions as Survey 1)

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Claim (Same directions as Survey 1)