

The Central Limit Theorem #4

You have a sample of 100 values from a population with mean $\mu = 500$ and with standard deviation $\sigma = 80$. Compute the interval that covers the middle 95% of the distribution of the sample mean. i.e, compute A and B such that $P(A < x < B) = 0.95$

Submission Modes and Output Format

You may either solve the problem on pen-and-paper and submit the final answer in the text box, or you may submit an R or Python program to accomplish the above task. Your output should contain the **two floating point/decimal numbers** each on a new line, correct to 2 places of decimal.

1. In the text box below, enter the two floating point/decimal numbers, correct to 2 places of decimal, each on a new line.
2. Alternatively, you may submit an **R/Python** program, which uses the provided parameters (hard-coded) and computes the answer.

Your answer should resemble something like:

100.10
200.35

(This is **NOT** the answer, just a demonstration of what the answering format should resemble).