Name:

Collaborators:

Instructions:

You must submit your worksheet individually by end-of-class or end-of-day. Your name must exist in your worksheet and the names of your collaborators.

Worksheets are marked mostly on completion, and partially on correctness. It will be marked either pass or fail, there will no detailed feedback on worksheets, and no opportunities for revisions and make-up.

Understanding the CLT

1. Intuition and Conditions Behind the CLT

  a. Explain in your own words what the Central Limit Theorem states and why it is important in statistics.

  b. The CLT has certain conditions that must be met. Identify these conditions and explain why they are necessary.

  c. What might happen if one or more of these conditions are not satisfied?

References

1.   Speegle, Darrin and Clair, Bryan (2021) Probability, statistics, and data: A fresh approach using r, Chapman; Hall/CRC.
2.   Diez DM, Barr CD, Çetinkaya-Rundel M (2012) OpenIntro statistics, OpenIntro.