

Name: Laura Smith -- Sample

Date: January 31, 2021

Problem: Lab 1 Question 2

REDO FORM

For each quiz problem marked with an “R”, follow the guidelines on this form completely in order to earn back a practitioner score (3 points) on the problem. Failure to completely answer the following questions at an expert level will result in a lesser score.

Although you may have as many opportunities as needed to correctly redo problems, your first attempt at redos must be completed and turned in within two class periods after receiving your quiz. One form must be completed for **each** problem.

Submit your redo form(s) alongside your redos from your lab assignment. Your redos for your lab assignment should only contain the problems you needed to redo—no other problems should be included!

1. **Reflect** on your learning. Answer each question in complete sentences.

(A) What was your initial conception of the problem?

Initially, I only looked at the differences in the heights of the bars in the histograms.

(B) Why was that an incorrect approach to the problem?

Although my reasoning was correct – I did not address how the shape of the distribution changes with different values of binwidth.

(C) What did you do to relearn the material? How did your approach change?

I looked back at Chapter 1 of the Introduction to Modern Statistics textbook, specifically the section discussing histograms. I also went back and looked at the Visualizing numerical data tutorial to see how they described binwidth.

(D) What understanding of this concept do you now have that you didn't have before?

I now understand that the counts on the y-axis change as a result of the binwidth. I also understand that smaller binwidths allow for us to see more details in the distribution, where these features could get lost in large binwidths. I also learned that you could choose a binwidth too small and your plot essentially looks like a seismograph.

