Quiz 1

This is a preview of the published version of the quiz

Started: Jan 20 at 3:41pm

Quiz Instructions

Question 1 1 pts

(Objective 1a: Types of Variables)

Classify the type of variable described below as *Quantitative* or *Qualitative*, as well as the subcategory *Continuous*, *Discrete*, *Nominal* or *Ordinal*.

- The number of volunteers that arrive for a charity event.
  - [Select] Quantitative
  - [Select] Discrete
- A response to a survey ranging from Strongly Agree to Strongly Disagree.
  - [Select] Qualitative
  - [Select] Ordinal
- The average daily caloric intake of a herd of bison.
  - [Select] Quantitative
  - [Select] Continuous
- The weight of an adult male kangaroo in kg.
  - [Select] Quantitative
  - [Select] Continuous
- The number of pizzas a pizzeria will sell next week.

- [Select] Quantitative
- [Select] Discrete

Question 2 1 pts

(Objective 1b: Visualizing Data - Histograms)

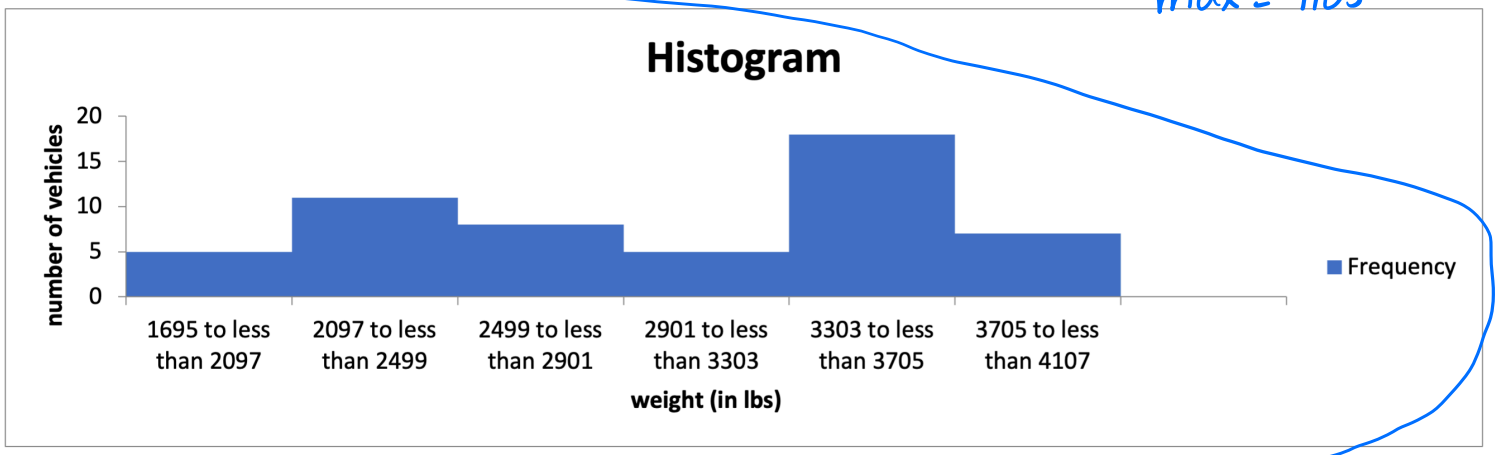
We want to create a histogram using the Data Analysis add-in in Excel.

If we use the $2^k \geq n$ Rule to find the number of bins, which of the following would be a histogram for "weight (in lbs)" in the Excel file below?

n = 54
k = 6
min = 1695
max = 4105

cars93.xlsx (https://canvas.uccs.edu/courses/162113/files/10822649?wrap=1)

○



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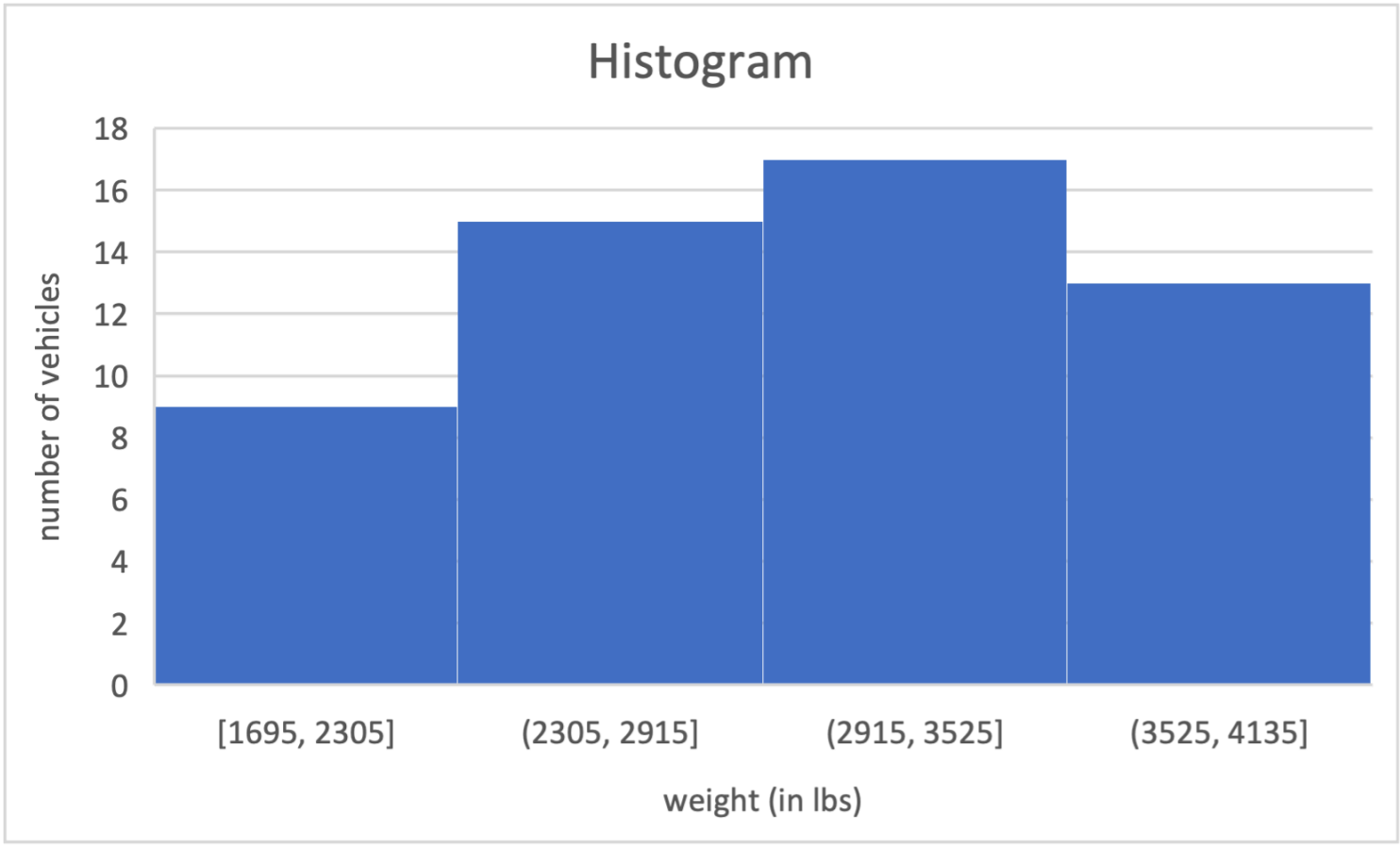
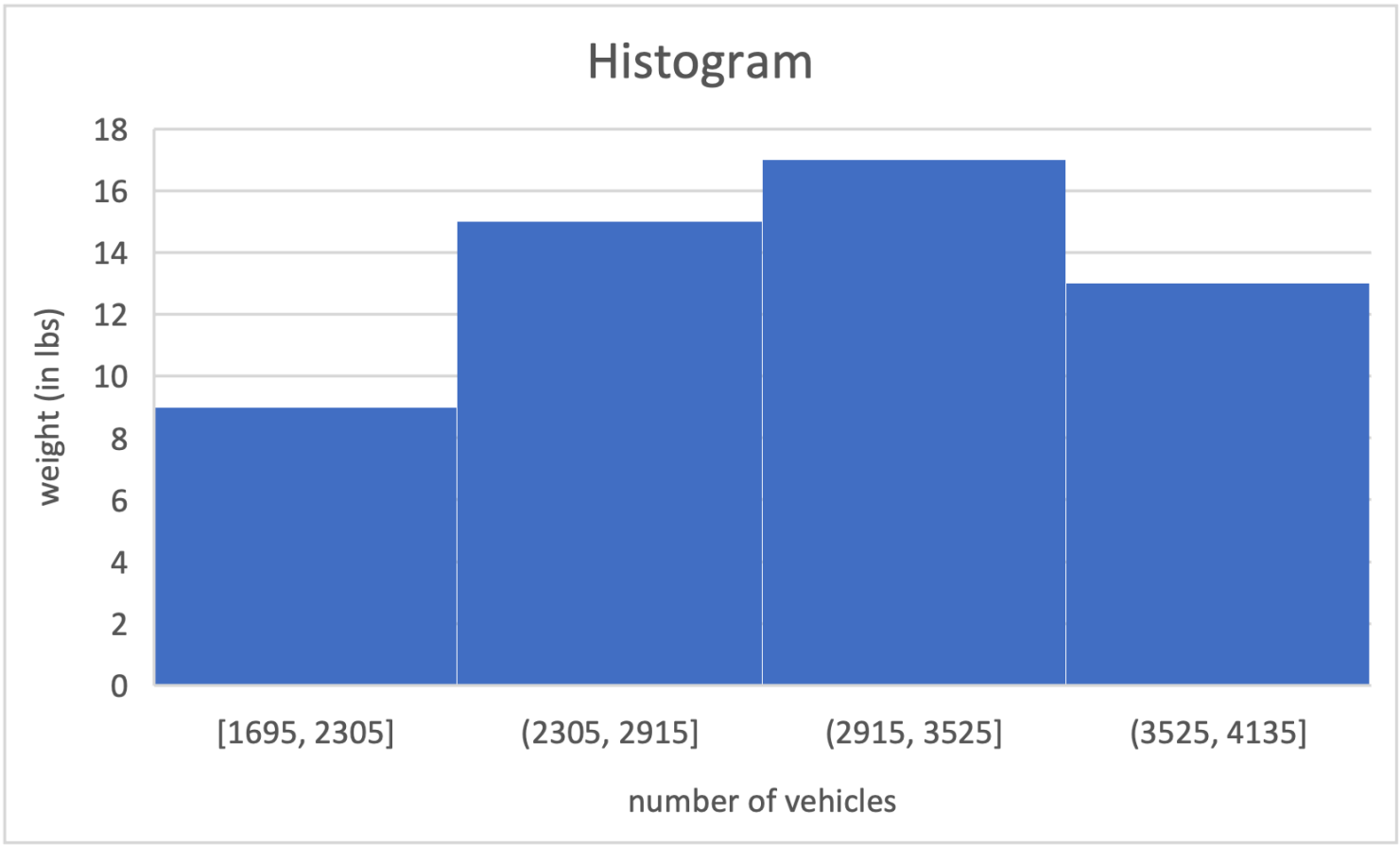
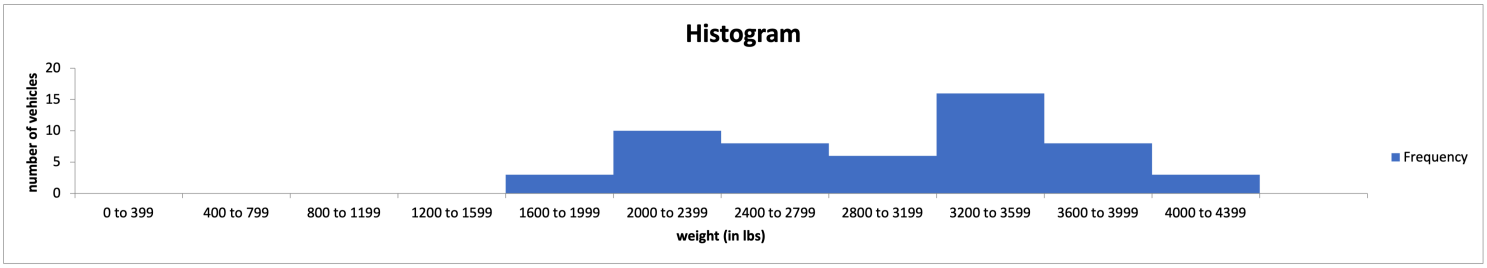
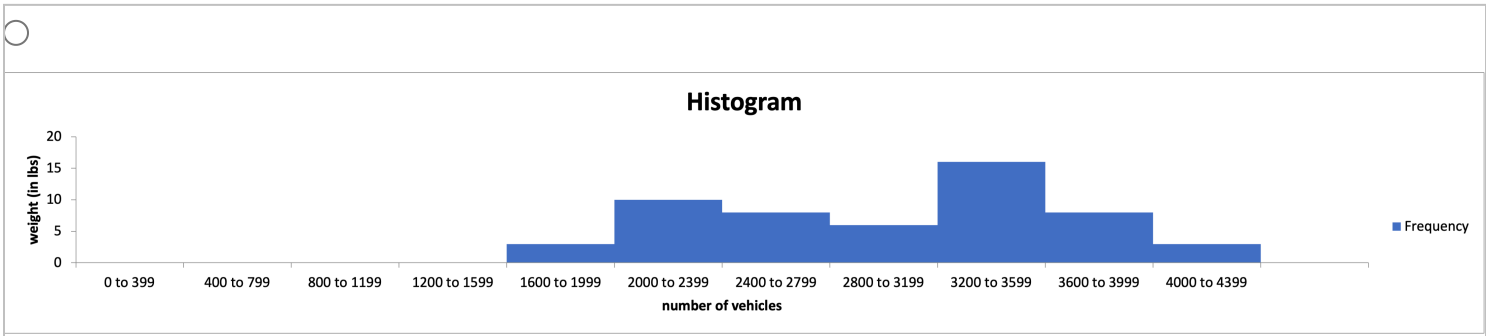

Histogram
18
16
14
12
10
8
6
4
2
0
number of vehicles
[1695, 2305]
(2305, 2915]
(2915, 3525]
(3525, 4135]
weight (in lbs)







cars_weight_option6.png

Question 3 1 pts

(Objective 1c: Visualizing Data - Bar Charts)

The Excel file below includes data about cars released in 1993. Use the Excel file to create a bar chart for "drive_train". **(https://canvas.uccs.edu/courses/162113/files/10822636?wrap=1)**

The different options for drive train are below:

- front → 43
- rear → 9
- 4WD → 2

(Solutions in Excel)

(One way to do this is to first create a frequency distribution using the "COUNTIF" function and use that to create your bar chart.)

Do all of your work in the attached file. Then save and upload it back here.

cars93.xlsx (https://canvas.uccs.edu/courses/162113/files/10822649?wrap=1) ⬇
(https://canvas.uccs.edu/courses/162113/files/10822649/download?download_frd=1)

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