Homework 3, MAT 327/782, FALL 2018

- 1. Use 2-3 words to describe the most likely type of data and level of measurement. Be as precise as possible.
 - (a) Shoe sizes (8, 8.5, 9, 9.5, 13, 13.5, 14) of men from a soccer team.
 - (b) Favorite movie of each student in a large sample of university students.
 - (c) Circumference in ft. of grain silos in Iowa.
 - (d) Number of traffic tickets issued each day in June 2018 in Seattle.
 - (e) Year of birth of a random sample of American actors and actresses.
- 2. The R dataset faithful contains data about the Old Faithful geyser in Yellow-stone National Park. The first column is the length of the eruption in minutes and the second column is the waiting time until the next eruption in minutes.
 - (a) In R, create a strip chart of the eruption lengths, using the best method (default, jitter, or stack) for this data. Note you are deciding which method gives a graph best representing this data. Label the x-axis and title your graph. Submit your graph as a pdf or image file on Blackboard.
 - (b) What features do you see in your graph from part (a)?
 - (c) In R, create a histogram of the frequencies of the waiting times. Label the x-axis and title your graph. Submit your graph as a pdf or image file on Blackboard.
 - (d) In R, create a histogram of the relative frequencies of the waiting times. Label the x-axis and title your graph. Submit your graph as a pdf or image file on Blackboard.
 - (e) What features do you see in your graphs from part (c) and (d)?