Name: _____

Math 123-02   Assignment 6   Number: _____
Summer 2024
Dr. Lily Yen   Show all your work   Signature: _____

Score: ___/20

Problem 1: Below is a list of the ages of 14 volunteers in Capilano University's Invasive Species pull party this spring.

65, 74, 46, 28, 82, 70, 30, 24, 48, 15, 69,
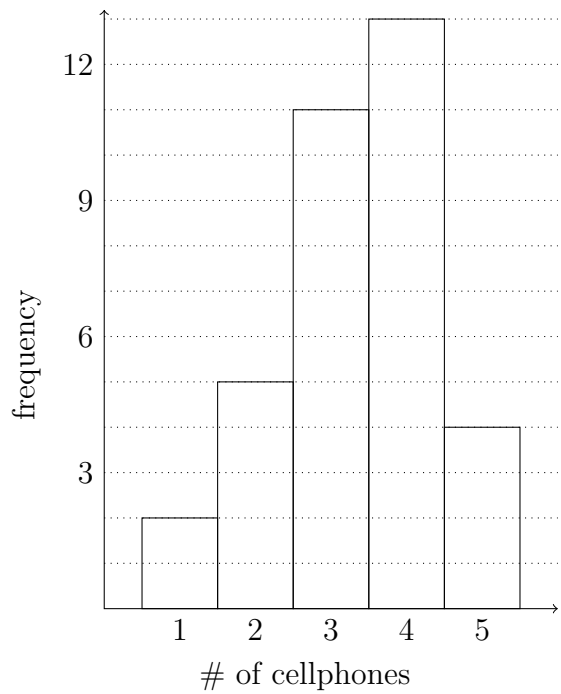35, 76 and 60.

a. Make a stem-and-leaf plot of the data.

b. Construct a relative frequency table using five classes.

c. Draw a histogram from your relative frequency table. Clearly label the axes.

Score: /6

Problem 2: In Lily's Math 123 Spring class of 35 students, suppose 2 are locals, 26 are international, and 7 are from out of town. Draw a pie chart for the above data. Include your steps for the calculation of each sector angle in the pie chart.

Score: /3

/9

Problem 3: The histogram shown is a summary of a survey of the number of cellphones (on the horizontal axis) ever owned by a sample of students in the budget travel club at Capilano University. Answer the following questions.

a. Find the number (n) of students surveyed.

b. Find the average number of cellphones ever owned in the sample.

c. Find the mode for the number of cellphones ever owned in the sample.

d. Find the median for the number of cellphones ever owned in the sample.

e. Compute the first quartile and the third quartile from the sample data.

f. Draw a boxplot for the data set.

g. Find the standard deviation of the data.

Score: /11

/11