		Name:	
Math 123-02	Assignment 6	Number:	
Fall 2024 Dr. Lily Yen	Show all your work	Signature:	
J		Score:	/16

Problem 1: Below is a stem-and-leaf plot of a sample data set of ages of volunteers in a food bank. Answer the following questions. Remember to include units when applicable.

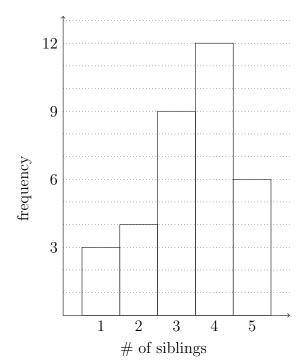
- 5 5
 - a. What is the sample size? That is, how many volunteers were sampled?
 - b. Find the median.
 - c. Find the mode.
 - d. Find the range.
 - e. Find the first quartile and the third quartile.
 - f. Draw a boxplot for the data.

Score: /7

Problem 2: In Lily's Fall 2024 courses, 12 students are locals, 26 are international, and 11 are from out of town. Draw a pie chart for the above data. Include your steps for the calculation of each sector angle and percentage in the pie chart.

Score: /3

Problem 3: The histogram shown is a summary of a survey of the number of siblings (on the horizontal axis) a sample of students have in the budget travel club at Capilano University. Answer the following questions. Remember to include units when applicable.



- a. Find the number (n) of students surveyed.
- b. Find the average number of siblings per student in the sample.
- c. Find the mode for the number of siblings per student in the sample.
- d. Find the median for the number of siblings per student in the sample.
- e. Find the variance and the standard deviation of the sample data.

Score: /6

Page 2 Math 123-02