

Math 123-02
Fall 2024
Dr. Lily Yen

Quiz Six

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Name:

Number:

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Score:

/13

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.

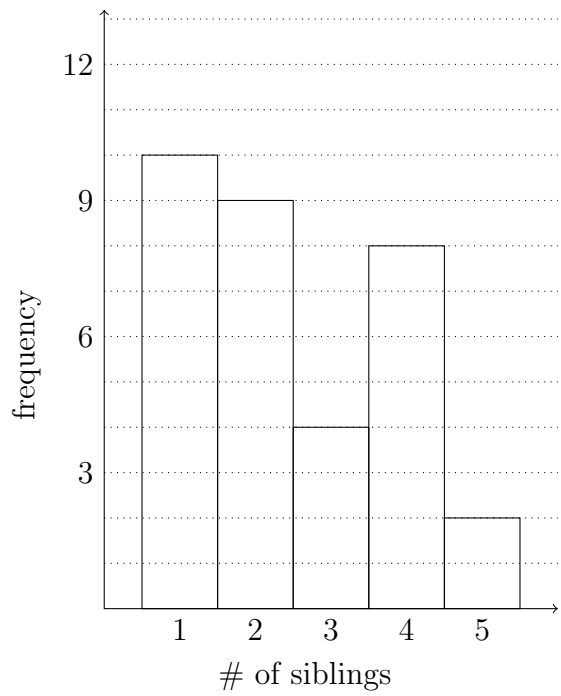
1	3	7	8	
2	0	4	4	9
3	0	2	2	2
4	3	6	8	
5	2	5	5	8
6	0	5	6	
7	0	2	6	
8	2	3	5	

- 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: 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