

Assignment 6

Show all your work

Name: \_\_\_\_\_

Number: \_\_\_\_\_

Signature: \_\_\_\_\_

Score: \_\_\_\_/10

**Problem 1:** Below is a stem-and-leaf plot of a sample data set of ages of volunteers in CapU’s June Convocation. Answer the following questions. Remember to include units when applicable.

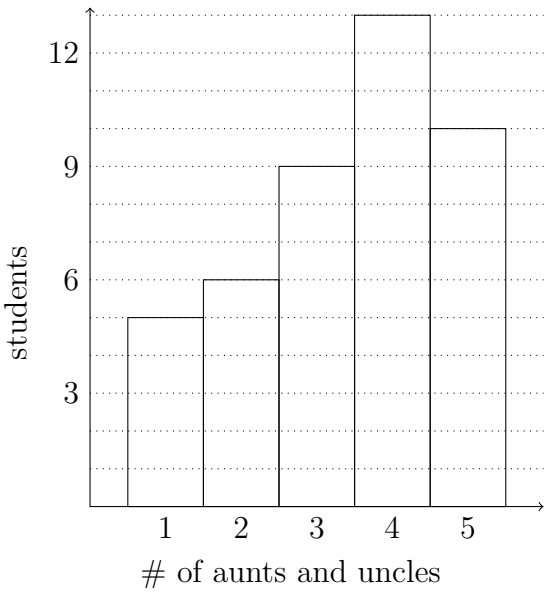
1		8	9
2		1	4 4 6
3		2	5
4		3	8
5		5	5 8
6		0	5

a. How many volunteers were sampled?

- b. Find the median.
- c. Find the mode(s).
- d. Find the range.
- e. Draw a boxplot for the data; clearly label the first, second, and third quartiles.

Score: \_\_\_\_/5

**Problem 2:** The histogram shown is a summary of a survey of the number of aunts and uncles (on the horizontal axis) a sample of Lily’s summer students have. Answer the following questions. Remember to include units when applicable.



- a. Find the number ( $n$ ) of students surveyed.
- b. Find the average number of aunts and uncles per student in the sample.
- c. Find the variance and the standard deviation of the sample data.

Score: \_\_\_\_/5