

Algebra II
Statistics 1

Name _____

1. Make a stem and leaf plot of the following data then find the mean, median and mode.

Customers per day: 98, 87, 79, 82, 101, 99, 97, 97, 102, 91, 93

2. Find the mean, median and mode of the following frequency table.

Length (m)	12	13	14	15	16	17	18
Frequency	2	5	3	7	4	9	1

3. Find the five number summary and make a boxplot of the following data.

Average temperatures in January for several cities in the mid-South
49.1, 50.8, 42.9, 44.0, 44.2, 51.4, 45.7, 39.9, 50.8, 46.7, 52.4, 50.4

4. Find the 20th percentile and 80th percentile for the following data set.

188, 168, 174, 198, 186, 170, 180, 182, 186, 176

5. From the data set in #4, what percentile is 182?

For each of the following data sets: Find the 5 number summary, identify the range and IQR, identify the outlier by using $Q1 - 1.5IQR$ and $Q3 + 1.5 IQR$.

6. 23, 76, 79, 76, 77, 74, 75

7. 43, 46, 49, 50, 52, 54, 78, 47

8. For both #6 and #7, find the mean and median of the data set when the outlier is included and when it is not.

9. The following represent the years of experience of the accountants at an accounting firm.

1 2 2 2 2 2 2 2 3 3 3 3 3
4 4 4 5 25 26 27

Which measure of center (mean or median) best describes the experience of the firm's accountants? Explain.