

Instructions: You must show all work to receive full credit for the problems below. You may use Excel where appropriate. Any datasets needed will be posted on Blackboard with the quiz file, and you should submit such work along with your quiz. Round answers to two decimal places unless other instructions are given in the problem.

- Use the data in **154quiz8data.xlsx** Sheet 1 to create a complete set of descriptive statistics including the mean, median, mode, standard deviation, five-number summary, etc. Report the values here.

mean = 153.818
 st. dev = 97.3730
 range = 478.19
 mode = 113.95

minimum = 6.82
 1st Quartile = 83.3225
 Median = 126.72
 3rd Quartile = 205.245
 Maximum = 488.01

- Using the same data as above, make a histogram of the data. Appropriately label your graph and give it a descriptive title. Describe the shape of the distribution as roughly symmetric, left skewed, right skewed or other.

right skewed

- Using the same data, make a boxplot of the same data. Does it agree with the shape described above? Why or why not?

yes. The mean is higher than median
 and all outliers are in large values

- Use the data in the table to find the weighted average.

Values	52	66	99	60	89	97
Weight	11	16	5	33	8	27

74.34