



1.4: Boxplots, 5 Number Summary, and Outliers

Consider the data below.

70, 70, 73, 73, 74, 75, 77, 77, 79, 79, 80, 81, 82, 82, 82, 82, 82, 82, 83, 83, 83, 83, 84, 84, 85, 88, 90, 91, 92, 97, 100

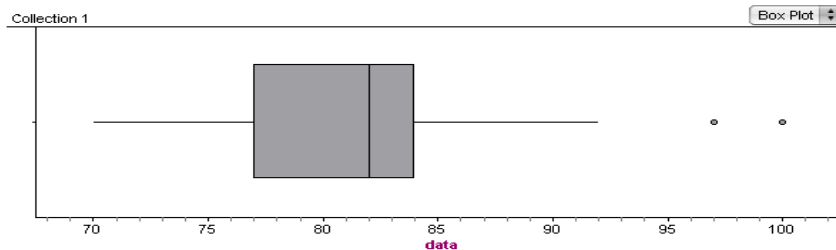
Find the mean and the median of the data set.

mean =

median =

Let's analyze the different pieces of the boxplot and how it relates to the data.

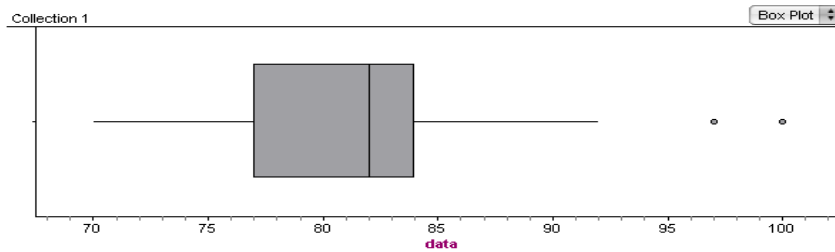
70, 70, 73, 73, 74, 75, 77, 77, 79, 79, 80, 81, 82, 82, 82, 82, 82, 83, 83, 83, 83, 84, 84, 85, 88, 90, 91, 92, 97, 100





Inter Quartile Range

IQR =

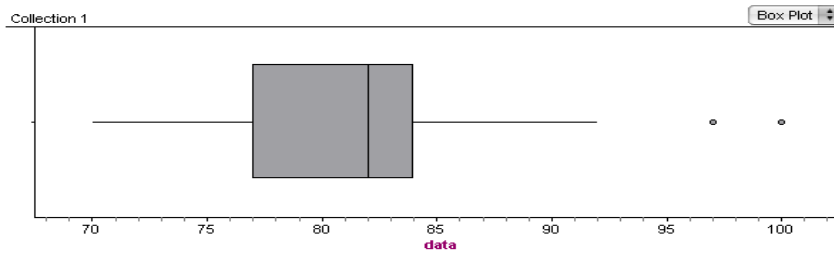


Find the IQR for the data set above.

Finding outliers using $1.5 \times \text{IQR}$



Where are the outliers for our data set?



What does it mean to "Analyze the Data"?

Shape

5 Number Summary

Mean and Standard Deviation

Outliers (using IQR)