10.2 Measures of Variability

Measures of variability are used to describe the distribution of the data. One measure of variability is the range. The **range** of a set of data is the difference between the greatest and the least values of the set. It describes whether the data are spread out or clustered together.

Example: Find the range for each set of data.



In a set of data, the **quartiles** are the values that divide the data into four equal parts. Recall that the median of a set of data separates the set in half.



The **interquartile range** is the range of the middle half of a set of data. It is the difference between the third quartile and the first quartile.

Example: Find the measures of variability for the data in the table.