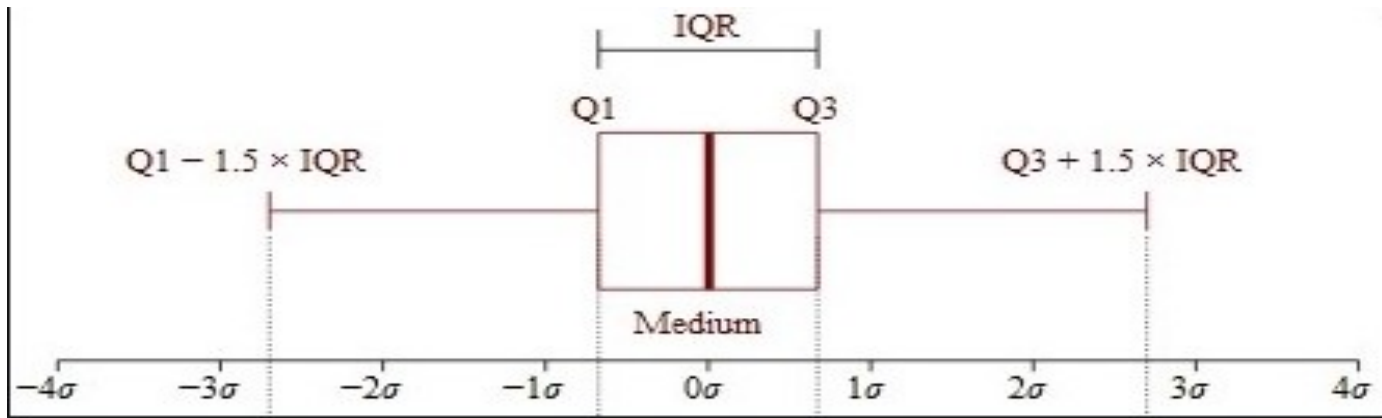


ASSIGNMENT OF STANDARD DEVIATION

Assignment About 1.5 Scale in Outlier



The mean ± 1.5 standard deviations

IQR is another robust method for labeling outliers. The IQR (interquartile range) method of outlier detection.

The interquartile range, which gives this method of outlier detection its name, is the range between the first and the third quartiles (the edges of the box). Tukey considered any data point that fell outside of either 1.5 times the IQR below the first – or 1.5 times the IQR above the third – quartile to be outside or far out. In a classic box-and-whisker plot, the whiskers extend up to the last data point that is not outside.

The interquartile range (IQR) is a measure of variability, based on dividing a data set into quartiles. Quartiles divide a rank-ordered data set into four equal parts. $Q1$, $Q2$ & $Q3$. IQR is defined as $Q3 - Q1$, and any data lying outside $Q3 + 1.5 \times IQR$ or $Q1 - 1.5 \times IQR$ is considered as an outlier.

