INTERQUARTILE RANGE (IQR)

Multiplying the interquartile range (IQR) by 1.5 is commonly done to identify outliers in dataset using the Tukey method or Tukey’s fences. The purpose is to establish an upper and lower bound beyond which data points are considered outliers.

These bounds are calculated as follows:

Upper bound: Q3(third quartile) +1.5\*IQR

Lower bound: Q1(first quartile) – 1.5 \*IQR

Any data points outside these bounds are often flagged as potential outliers. This method is used in various statistical analyses to identify extreme values that might skew the results.