Five-Point Summary, Boxplot, IQR & Outliers

Finding the Five-Point Summary Using TI:

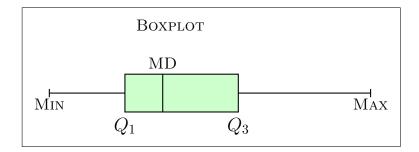1. Enter your data in a list: $\qquad$ STAT > EDIT > 1:Edit

2. Perform basic one sample computation: $\qquad$ STAT > CALC > 1: 1–Var Stats

3. Once you see the result screen, arrow down all the way to view the **Five-Point Summary**.

Constructing a Boxplot:

Finding Inter–Quartile Range(IQR), Lower and Upper Fence:

1. Use the formula $Q_3 - Q_1$ to find the IQR .

2. Finding Upper Fence: $Q_3 + 1.5 \times IQR$

3. Finding Lower Fence: $Q_1 - 1.5 \times IQR$

Identifying Any Outliers:

1. Any data element that is greater than the upper fence $Q_3 + 1.5 \times IQR$ is considered to be an outlier.

2. Any data element that is less than the lower fence $Q_1 - 1.5 \times IQR$ is considered to be an outlier.