

- The interquartile range. Compare the two interquartile ranges.
- Any outliers in either set.

The five number summary for the day and night classes is

hit

	Minimum	Q_1	Median	Q_3	Maximum
Day	32	56	74.5	82.5	99
Night	25.5	78	81	89	98

Day IQR:

$$\text{IQR} = Q_3 - Q_1 = 82.5 - 56 = 26.5$$

$$\text{Day IQR} = 26.5$$

Day Lesser Outlier(DLO):

$$\text{DLO} = Q_1 - 1.5 \times \text{IQR} = 56 - 1.5 \times 26.5 = 16.25$$

Day Greater Outlier(DGO):

$$\text{DGO} = Q_3 + 1.5 \times \text{IQR} = 82.5 + 1.5 \times 26.5 = 122.25$$

If any of data goes beyond the DLO(16.25) those data can be ignore. Similarly data goes above the DGO(i.e: 122.25) then we can ignore those data.

Night IQR:

$$\text{IQR} = Q_3 - Q_1 = 89 - 78 = 11$$

$$\text{Night IQR} = 11$$

Night Lesser Outlier(NLO):

$$\text{NLO} = Q_1 - 1.5 \times \text{IQR} = 78 - 1.5 \times 11 = 61.5$$

Night Greater Outlier(NGO):

$$\text{NGO} = Q_3 + 1.5 \times \text{IQR} = 89 + 1.5 \times 11 = 105.5$$

If any of data goes beyond the NLO(61.5) those data can be ignore. Similarly data goes above the NGO(i.e: 105.5) then we can ignore those data.

Lesser Outlier: