

- 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:

$$\text{IQR} = Q_3 - Q_1 = 82.5 - 32 = 50.5$$

$$\text{Day IQR} = 50.5$$

Day Lesser Outlier(DLO):

$$\text{DLO} = Q_1 - 1.5 \times \text{IQR} = 56 - 1.5 \times 50.5 = -19.75$$

Day Greater Outlier(DGO):

$$\text{DGO} = Q_3 + 1.5 \times \text{IQR} = 82.5 + 1.5 \times 50.5 = 158.25$$

If any of data goes beyond the DLO(-19.75) those data can be ignore. Similarly data goes above the DGO(i.e: 158.25) then we can ignore those data.

Night IQR:

$$\text{IQR} = Q_3 - Q_1 = 89 - 25.5 = 63.5$$

$$\text{Night IQR} = 63.5$$

Night Lesser Outlier(NLO):

$$\text{NLO} = Q_1 - 1.5 \times \text{IQR} = 78 - 1.5 \times 63.5 = -69.75$$

Night Greater Outlier(NGO):

$$\text{NGO} = Q_3 + 1.5 \times \text{IQR} = 89 + 1.5 \times 63.5 = 184.25$$

If any of data goes beyond the NLO(-69.75) those data can be ignore. Similarly data goes above the NGO(i.e: 184.25) then we can ignore those data.

Lesser Outlier: