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

The five number summary for the day and night classes is

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

For Day,

$$IQR = Q3 - Q1 = 82.5 - 56 = 26.5$$

Lesser Outlier range (LR) = Q1 - 1.5 * IQR
=
$$56 - 1.5 * 26.5$$

= $56 - 39.75$

$$LR = 16.25$$

Greater Outlier Range (GR) =
$$Q3 + 1.5 * IQR$$

= $82.5 + 39.75$

$$GR = 122.25$$

Since the Maximum value is lesser than the "GR" and Minimum value is greater than the "LR" there is no greater/lesser Outliers for 'Day'

For Night,

$$IQR = Q3 - Q1 = 89 - 78 = 11$$

Lesser Outlier range (LR) = Q1 - 1.5 * IQR
=
$$78 - 1.5 * 11$$

= $78 - 16.5$

LR = 61.5

Greater Outlier Range (GR) = Q3 + 1.5 * IQR
=
$$89 + 16.5$$

$$GR = 105.5$$

Since the Maximum value is lesser than the "GR" and Minimum value is Lesser than the "LR" there is lesser Outliers for 'Night'