# INTERQUANTILE REPORT

# Interquartile Range(IQR)

- 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

## Day:

$$(1.5)(IQR)=1.5x26.5$$
 Q1- $(1.5)(IQR)=56-39.75$  Q3+ $(1.5)(IQR)=82.5+39.75$ 

=39.75

**Lesser =16.25** 

**greater =122.22** 

#### **SUMMARY:**

In Day Class Not less than 16.25. In Maximum not greater than 122.22

So no Potential Outlier

### Night:

$$(1.5)(IQR)=1.5x11$$
 Q1- $(1.5)(IQR)=78-16.5$  Q3+ $(1.5)(IQR)=89+16.5$  = 16.5 Lesser =61.5 greater =105.5

### **SUMMARY:**

In Day Class Not less than 61.5. In Maximum not greater than 122.22 So no Potential Outlier