

OUTLIER

The five number summary for the day and Night classes is

| | Minimum | Q1 | Median | Q3 | Maximum |
|-------|----------------|-----------|---------------|-----------|----------------|
| Day | 32 | 56 | 74.5 | 82.5 | 99 |
| Night | 25.5 | 78 | 81 | 89 | 98 |

Day:

$$\text{IQR} = \text{Q3} - \text{Q1}$$

$$\text{IQR} = 82.5 - 56$$

$$= 26.5$$

LESSER OUTLIER:

$$\text{Q1} - 1.5(\text{IQR})$$

$$= 56 - 1.5(26.5)$$

$$= 56 - 39.7$$

Lesser Outlier NOT for a present = 16.25

GREATER OUTLIER:

$$\text{IQR} = 82.5 - 56$$

$$= 26.5$$

$$\text{Q3} + (1.5)(26.5)$$

$$= 82.5 + (1.5)(26.5)$$

$$= 82.5 + 39.7$$

Greater Outlier not for a present = 122.25

Night:

LESSER OUTLIER:

$$\text{IQR} = \text{Q3} - \text{Q1}$$

$$\text{IQR} = 89 - 78$$

$$= 11$$

$$\text{Q1} - 1.5(\text{IQR})$$

$$= 78 - (1.5)(11)$$

$$=78-16.5$$

$$=61.5$$

Lesser Outlier in a present

Greater Outlier

$$\text{IQR} = Q3 - Q1$$

$$\text{IQR} = 89 - 78$$

$$=11$$

$$Q3 + 1.5(\text{IQR})$$

$$= 89 + (1.5)(11)$$

$$= 89 + 16.5$$

Greater Outlier not for a present =105.5