

IQR

Dataset Summary

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

- $\text{IQR (Interquartile Range)} = Q3 - Q1$
- $\text{Lesser Outlier} = Q1 - 1.5 \times \text{IQR}$
- $\text{Greater Outlier} = Q3 + 1.5 \times \text{IQR}$

Day Time

- $Q1 = 56$
- $Q3 = 82.5$
- $\text{IQR} = 82.5 - 56 = 26.5$

Lesser Outlier:

- $= 56 - 1.5 \times 26.5$
- $= 56 - 39.75$
- $= 16.25$

No lesser outlier present (Minimum = 32 > 16.25)

Greater Outlier:

- $= 82.5 + 1.5 \times 26.5$
- $= 82.5 + 39.75$
- $= 122.25$

No greater outlier present (Maximum = 99 < 122.25)

Night Time Analysis

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

Lesser Outlier:

- $= 78 - 1.5 \times 11$
- $= 78 - 16.5$
- $= \mathbf{61.5}$

Lesser outlier is present (Minimum = $25.5 < 61.5$)

Greater Outlier:

- $= 89 + 1.5 \times 11$
- $= 89 + 16.5$
- $= \mathbf{105.5}$

No greater outlier present (Maximum = $98 < 105.5$)