

Equations for EX I

$$\text{Coefficient of Variation} = \text{C.V.} = \frac{S_x}{\bar{x}} * 100$$

$$Z_{score} = \frac{\text{Data Value} - \text{Avg.}}{SD} = \frac{(x - \bar{X})}{S_x}$$

$$IQR = \text{Interquartile Range} = Q_3 - Q_1$$

Outliers:

If the data value $> Q_3 + 1.5 * IQR$

If the data value $> Q_3 + 1.5 * (Q_3 - Q_1)$

Then the data value is too high, i.e., an outlier

If the data value $< Q_1 - 1.5 * IQR$

If the data value $< Q_1 - 1.5 * (Q_3 - Q_1)$

Then the data value is too low, i.e., an outlier