Formulas

$$\overline{x} = \frac{1}{n}\sum_{i=1}^{n} x_i$$

$$\overline{x}_w = \frac{\sum_{i=1}^{n} w_i \cdot x_i}{\sum_{i=1}^{n} w_i}$$

$$\overline{x}_g = \exp\left(\frac{1}{n}\sum_{j=1}^{n} \ln(x_i)\right)$$

$$i = \frac{n+1}{2}$$

$$\tilde{x} = x_i$$

$$i_1 = \frac{n}{2}$$

$$i_2 = \frac{n}{2} + 1$$

$$\tilde{x} = \frac{(x_{i_1} + x_{i_2})}{2}$$

$$\mathrm{Var}(x) = s^2 = \sum_{i=1}^{n} \frac{(x_i - \overline{x})^2}{n}$$

$$s = \sqrt{s^2}$$

$$CV = \left|\frac{s}{\overline{x}}\right| \times 100$$

$$\min(x_i) = x_1$$

$$\max(x_i) = x_n$$

$$\Delta = \max(X) - \min(X)$$

$$Q_2 = \tilde{x}$$

$$Q_1 = \tilde{x_1} \text{ of } [x_1, x_2, \ldots, Q_2)$$

$$Q_3 = \tilde{x_3} \text{ de } (Q_2, x_2, \ldots, x_n]$$

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

$$L = Q1 - 1.5(IQR)$$

$$U = Q3 + 1.5(IQR)$$