

Formulario de Estadística Descriptiva

Datos no agrupados

$$\bar{x} = \frac{\sum_{i=1}^n X_i}{n} \quad s^2 = \frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1} \quad q_i = X_{\left(\frac{i(n+1)}{4}\right)} \quad p_i = X_{\left(\frac{i(n+1)}{100}\right)}$$

Datos agrupados

$$\bar{x} = \frac{\sum_{i=1}^n X_i}{n} \quad \text{mediana} = L_i + \frac{\left(\frac{n}{2}\right) - F_{i-1}}{f_i} * l \quad \text{mod } a = L_i + \frac{(f_i - f_{i-1})}{(f_i - f_{i-1}) + (f_i - f_{i+1})} * l$$

$$s^2 = \frac{\sum_{i=1}^n f_i m_i^2 - \frac{\left(\sum_{i=1}^n f_i m_i\right)^2}{n}}{n-1}$$

$$q_i = L_i + \frac{i\left(\frac{n}{4}\right) - F_{i-1}}{f_i} * l \quad p_i = L_i + \frac{i\left(\frac{n}{100}\right) - F_{i-1}}{f_i} * l$$