FORMULARIO

$$\mu = \frac{\sum x_i}{n} \qquad \bar{x} = \frac{\sum x_i}{n} \qquad M.G. = \left(\prod x_i\right)^{1/n} \qquad M.A. = \frac{1}{\left(\frac{\sum \frac{1}{x_i}}{n}\right)} = n\left(\sum x_i^{-1}\right)^{-1}$$

$n = 4m + 1$ (con m entero) $\qquad Q_1 = \frac{x_m + 3x_{m+1}}{4} \qquad Q_3 = \frac{3x_{3m+1} + x_{3m+2}}{4}$

$n = 4m + 3$ (con m entero) $\qquad Q_1 = \frac{3x_{m+1} + x_{m+2}}{4} \qquad Q_3 = \frac{x_{3m+2} + 3x_{3m+3}}{4}$

$IQR = Q_3 - Q_1 \qquad i = \left\lceil \frac{pn}{100} \right\rceil$

$$\sigma^2 = \frac{\sum (x_i - \mu)^2}{n} \qquad \sigma^2 = \frac{\sum (x_i^2)}{n} - \frac{\left(\sum x_i\right)^2}{n^2} \qquad \sigma = \sqrt{\sigma^2} \qquad CV = \frac{\sigma}{\mu}$$

$$s^2 = \frac{\sum (x_i - \bar{x})^2}{n-1} \qquad s^2 = \frac{\sum (x_i^2)}{n-1} - \frac{\left(\sum x_i\right)^2}{n(n-1)} \qquad s = \sqrt{s^2} \qquad CV = \frac{s}{\bar{x}}$$

$$g_1 = \frac{n}{(n-1)(n-2)} \sum \left(\frac{x_i - \bar{x}}{s}\right)^3 \qquad g_2 = \left[\frac{n(n+1)}{(n-1)(n-2)(n-3)} \sum \left(\frac{x_i - \bar{x}}{s}\right)^4\right] - \frac{3(n-1)^2}{(n-2)(n-3)}$$

$$n = \sum f_i \qquad \bar{x} = \frac{\sum x_i f_i}{\sum f_i} \qquad s^2 = \frac{\sum (x_i - \bar{x})^2 f_i}{\left(\sum f_i\right) - 1}$$

$$L + \frac{\frac{n}{2} - F}{f_m}\delta \qquad Q_1 = L + \frac{\frac{n}{4} - F}{f_{Q_1}}\delta \qquad Q_3 = L + \frac{\frac{3n}{4} - F}{f_{Q_3}}\delta \qquad L + \frac{D_a}{D_a + D_b}\delta$$

$$_nP_n = n! \qquad _nP_r = \frac{n!}{(n-r)!} \qquad _nP_{n_1, n_2 \ldots n_k} = \frac{n!}{n_1!\, n_2! \cdots n_k!} \qquad _nC_r = \frac{_nP_r}{r!} = \frac{n!}{(n-r)!\; r!}$$