$$n_0 = \frac{z^2 . p(1-p)}{e^2}$$

$$\overline{X} = \frac{\sum_{i=1}^{k} fixi}{\sum_{i=1}^{k} fi} = \frac{f_1x_1 + f_2x_2 + ...+ f_kx_k}{f_1 + f_2 + ...+ f_k}$$

$$X^2 = \sum \frac{(fo - fe)^2}{fe}$$

$$\sigma = \sqrt{\frac{\sum (x-\mu)^2}{N}}$$

$$SD = \sqrt{\frac{\sum \left\{ \left(x-\overline{x}\right)^2 + \left(y-\overline{y}\right)^2 \right\}}{n}}$$

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

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

$$S = \sqrt{\frac{\sum f_i x_i^{\,2} - \frac{\left(\sum f_i x_i\right)^2}{\sum f_i}}{\sum f_i - 1}}$$

$$I = (A - R)/(M - R)$$

$$\mathrm{r} = \frac{\sum Y_i X_i - \frac{\left(\sum Y_i\right)\left(\sum X_i\right)}{n}}{\sqrt{\sum Y_i^{\,2} - \frac{\left(\sum Y_i\right)^2}{n}}\sqrt{\sum X_i^{\,2} - \frac{\left(\sum X_i\right)^2}{n}}}$$

$$Z = \left(\frac{x - \overline{x}}{S}\right)$$

$$r_{YX_1} = \frac{n\sum YX_1 - \sum Y \sum X_1}{\sqrt{N\sum Y_I^2 - \left(\sum Y_I\right)^2}\sqrt{n\sum X_1^2 - \left(\sum X_1\right)^2}}$$

$$S = \sqrt{\frac{\sum \left(x - \overline{x}\right)^2}{n-1}}$$

$$SD = \frac{\sqrt{\left(\sum d_i^{\,2}\right)}}{n}$$

$$S^2 = \frac{\sum \left(x_i - \overline{x}\right)^2}{n-1}$$

$$M.D = \frac{\sum \left|x_i - \overline{x}\right|}{n}$$

$$C.V = \frac{S}{\overline{X}} \times 100$$

$$\overline{H} = \frac{\sum f_i}{\sum \frac{f_i}{x_i}}$$

$$\overline{H} = \frac{n}{\frac{1}{x_1} + \frac{1}{x_2} + ... + \frac{1}{x_n}} = \frac{n}{\sum \frac{1}{x_i}}$$

$$\boldsymbol{n = \frac{n_0 . N}{n_0 + (N - 1)}}$$

$$\mu = \frac{\sum_{i=1}^{N} x_i}{N}$$

$$\overline{Y} = \frac{\sum_{i=1}^{n} w_i f_i x_i}{\sum_{i=1}^{n} w_i f_i}$$

$$\log \overline{G} = \frac{\sum Log(x_i)}{n}$$

$$S.E = \frac{s}{\sqrt{n}}$$

$$r_s = 1 - \frac{6\sum_{i=1}^{n} d_i^2}{n\left(n^2 - 1\right)}$$

$$Y = B_0 + B_1 X$$

$$R_{YX_1X_2} = \sqrt{\frac{r^2{}_{YX_1} + r^2{}_{YX_2} - 2 r_{YX_1} r_{YX_2} r_{X_1X_2}}{1 - r^2{}_{X_1X_2}}}$$

$$R_{YX_1X_2} = \frac{r_{YX_1} - r_{YX_2} r_{X_1X_2}}{\sqrt{1 - r^2{}_{X_1X_2}}\sqrt{1 - r^2{}_{YX}}}$$