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

$$\overline{X} = \frac{\sum_{i=1}^{k} f_i x_i}{\sum_{i=1}^{k} f_i} = \frac{f_1 x_1 + f_2 x_2 + \ldots + f_k x_k}{f_1 + f_2 + \ldots + f_k}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$R_{YX_1 X_2} = \sqrt{\frac{r^2_{YX_1} + r^2_{YX_2} - 2r_{YX_1} r_{YX_2} r_{X_1 X_2}}{1 - r^2_{X_1 X_2}}}$$

$$R_{YX_1 X_2} = \frac{r_{YX_1} - r_{YX_2} r_{X_1 X_2}}{\sqrt{1 - r^2_{X_1 X_2}} \sqrt{1 - r^2_{YX}}}$$

$$Y = B_0 + B_1 X$$