$$\mathrm{Cov}(X,Y) = \frac{\sum_{i=1}^{n} XY}{n} - \overline{X}\,\overline{Y} \quad ,$$

$$s_X = \sqrt{\frac{\sum_{i=1}^{k} f_i \left(X_i - \overline{X}\right)^2}{n}} \quad \text{e} \quad s_Y = \sqrt{\frac{\sum_{i=1}^{k} f_i \left(Y_i - \overline{Y}\right)^2}{n}}$$