

Data table

A1	A2	A3
x11	x12	x13
x21	x22	x23
x31	x32	x33
..	..	..
n1	n2	n3

$$SSTR = \sum n_j (\bar{X}_j - \bar{\bar{X}})^2$$

$$SSE = \sum_j \sum_i (X_{ij} - \bar{X}_j)^2$$

$$SST = \sum_j \sum_i (X_{ij} - \bar{\bar{X}})^2$$

F-statistic

$$F = \frac{SSTR / (c - 1)}{SSE / (n - c)} = \frac{MSTR}{MSE}$$