

Between part reflects the differences between the attitudes of engineers and administrators toward the new health plan

Between Group:

$$SSB = \sum_{j=1}^2 n_j ig(ar{Y}_j - ar{Y}_{..}ig)^2 igg|$$

Within part reflects the differences that exist among the 50 engineers and the 50 administrators toward the new health plan

Within Group:

$$SSW = \sum_{i=1}^{50} \sum_{j=1}^{2} \left(Y_{i,j} - ar{Y}_{.j}
ight)^2$$

$$F = rac{SSB/(j-1)}{SSW/(N-j)}$$

Total

, where j is the number of groups