

Source	DF	SS	E(MS)
Group	$2 - 1$	$\sum_{i=1}^2 \sum_{j=1}^Q \sum_{k=1}^{m_{ij}} (\bar{Y}_{i..} - \bar{Y}_{...})^2$	$\sigma_\varepsilon^2 + \sigma_B^2 \left( \sum_{i=1}^2 \frac{1}{n_i} \sum_{j=1}^Q m_{ij}^2 - \frac{1}{N} \sum_{i=1}^2 \sum_{j=1}^Q m_{ij}^2 \right) + \sum_{i=1}^2 n_i \alpha_i^2$
Residual	$N - 2$	$\sum_{i=1}^2 \sum_{j=1}^Q \sum_{k=1}^{m_{ij}} (Y_{ijk} - \bar{Y}_{i..})^2$	$\sigma_\varepsilon^2 + \sigma_B^2 \frac{1}{N - 2} \left( N - \sum_{i=1}^2 \frac{1}{n_i} \sum_{j=1}^Q m_{ij}^2 \right)$
Total	$N - 1$	$\sum_{i=1}^2 \sum_{j=1}^Q \sum_{k=1}^{m_{ij}} (Y_{ijk} - \bar{Y}_{...})^2$	