例題 9.10

$H_0 = \mu_1 = \mu_2 = \mu_3$ $\qquad\qquad$ $n = 5+6+6 = 17$

$$SST = \sum_{i=1}^{3} \sum_{j=1}^{n_i} y_{ij}^2 - \frac{T^2}{n} = 39.159 - 33.264 = 5.895$$

$$SSTR = \sum_{i=1}^{k} \left(\frac{T_i^2}{n_i}\right) - \frac{T^2}{n} = 37.873 - 33.264 = 4.609$$

$$SSE = SST - SSTR = 1.286$$

變異來源	平方和	自由度	均方	F檢定值
減肥藥	SSTR = 4.609	3-1=2	MSTR = 2.305	$\frac{2.305}{0.092} = 25.05$
隨機誤差	SSE = 1.286	17-3=14	MSE = 0.092	
總和	SST = 5.895	17-1 = 16		

$$\bar{F} = 25.05 > F_{0.05}(2,14) = 3.74$$

拒絕 H_0