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9.7 $T_1=300$ $T_2=390$ $T_3=570$ $T_4=540$

$T=\sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij}=1800$

$\sum_{i=1}^{4}\sum_{j=1}^{n_i} y_{ij}^2 = 120^2+180^2+\cdots+240^2+500^2=354400$

$SST=354400-\frac{(1800)^2}{10}=30400$

$SSTR=\frac{(300)^2}{2}+\frac{(390)^2}{3}+\frac{(570)^2}{3}+\frac{(540)^2}{2}-\frac{(1800)^2}{10}=25800$

$SSE=SST-SSTR=30400-25800=4600$

$SSTR=25800$ $4-1=3$ $MSTR=\frac{25800}{3}$

$SSE=4600$ $10-4=6$ $MSE=\frac{4600}{6}$

$SST=30400$ $10-1=9$

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9.8

SSTR = 25800 4-1=3 MSTR = $\frac{25800}{3}$ = 8600 $\frac{8600}{767}$ = 11.2

SSE = 4600 9-3=6 MSE = $\frac{4600}{6}$ = 767

SST = 30400 10-1=9

$F = 11.2 > F_{0.05}(3,6) = 4.76$ 拒却 H_0