$= 300 + 390 + 570 + 540 = \sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij} = 1{,}800$

9.7.

$T_1 = 120 + 180 = 300$

$T_2 = 140 + 120 + 130 = 390$

$T_3 = 150 + 170 + 210 = 570$

$T_4 = 240 + 300 = 540$

$T = 300 + 390 + 570 + 540 = \sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij} = 1800$

$\sum_{i=1}^{4}\sum_{j=1}^{n_i} y_{ij}^2 = 120^2 + 180^2 + 140^2 + \cdots + 240^2 + 300^2 = 354400$

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

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

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

变异来源	平方和	自由度	均方
处理	$SSTR = 25800$	$4-1=3$	$MSTR = \frac{25800}{3} = 8600$
随机误差	$SSE = 4600$	$10-4=6$	$MSE = \frac{4600}{6} \approx 766.67$
总和	$SST = 30400$	$10-1=9$	

9.8

变异来源	平方和	自由度	均方	F值
包装材料	$SSTR = 25800$	$4-1=3$	$MSTR = \frac{25800}{3} = 8600$	$\frac{8600}{767} = 11.21$
随机误差	$SSE = 4600$	$9-3=6$	$MSE = \frac{4600}{6} = 767$	
总和	$SST = 30400$	$10-1=9$		