

# Map & Resource Plan & 1st Step

9.7

$$T_A = 300$$

$$T_B = 390$$

$$T_C = 570$$

$$T_D = 540$$

$$T = 1800$$

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

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

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

$$\sum y^2 = 354400$$

處理

$$SSTR = 25800$$

$$4-1=3$$

$$MSTR = \frac{25800}{3}$$

隨機誤差

$$SSE = 4600$$

$$10-4=6$$

$$MSE = \frac{4600}{6}$$

$$SST = 30400$$

$$10-1=9$$

9.8

$$H_0: \alpha_1 = \alpha_2 = \alpha_3 = \alpha_4$$

$$H_1: \alpha_1 \neq \alpha_2 \neq \alpha_3 \neq \alpha_4$$

	平方和	自由度	均方	F值
包材	$SSTR = 25800$	$4-1=3$	$MSTR = 8600$	$\frac{8600}{767} = 11.2$
隨機誤差	$SSE = 4600$	$9-3=6$	$MSE = 767$	
	$SST = 30400$	$10-1=9$		

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

$\therefore$  Reject  $H_0$