

$$TSS = SST + SSE$$

MTH 245

$$MST = \frac{SST}{k-1}$$

$$MSE = \frac{SSE}{N_T - k}$$

Complete the ANOVA tables

$$F = \frac{MST}{MSE}$$

1.)

Source	d. f.	Sum of Squares	Mean Squares	F
Treatments	3	324	162	3.951
Error	60	2460	41	
Total	63	2784		

2.)

Source	d. f.	Sum of Squares	Mean Squares	F
Treatments	5	102	25.5	1.962
Error	44	1223	13.0	
Total	99	1325		

3.)

Source	d. f.	Sum of Squares	Mean Squares	F
Treatments	6	945	179	6.43
Error	148	4356	29.4	
Total	154	5301		

4.)

Source	d. f.	Sum of Squares	Mean Squares	F
Treatments	4	168	56	0.83
Error	55	3712	67.5	
Total	59	3880		

$$MST = \frac{SST}{k-1}$$

$$MST(k-1) = SST$$

$$56(3) = SST$$