

HOMEWORK # 7 - PISc 724

Given the following data obtained from 3 experiments using 4X4 latin squares:

Square 1 72 (A) 79 (B) 85 (D) 93 (C)
67 (B) 81 (D) 80 (C) 90 (A)
71 (D) 76 (C) 83 (A) 95 (B)
74 (C) 83 (A) 87 (B) 97 (D)

Square 2 52 (A) 55 (B) 60 (D) 73 (C)
49 (B) 57 (D) 57 (C) 70 (A)
50 (D) 51 (C) 67 (A) 75 (B)
57 (C) 59 (A) 69 (B) 78 (D)

Square 3 67 (A) 70 (B) 76 (D) 84 (C)
61 (B) 68 (D) 74 (C) 81 (A)
70 (D) 72 (C) 78 (A) 85 (B)
74 (C) 74 (A) 79 (B) 87 (D)

- a) Do the ANOVA for each square individually
- b) Determine if a combined analysis can be conducted using Bartlett's Chi Square test for homogeneity of variance.
- c) Do the combined ANOVA if appropriate.
- d) Regardless if the Treatment SOV is significant or not, calculate the lsd (0.05) for Treatments in the individual and combined analyses and the Square X Treatment SOV in the combined analysis.