

NM318/317: Do Ex. 4, 5

NM309: Do Ex. 4

- * 4. Test the hypothesis that the following four sets of data are homogeneous.

Set 1: 7, 8, 7, 10.

Set 2: 6, 8, 9, 7.

Set 3: 11, 10, 12, 9.

Set 4: 12, 10, 9, 10.

(Test using $\alpha = 0.05$.) Let μ_i be the population mean of set i . Find the 95% confidence intervals for $\mu_1, \mu_2, \mu_3, \mu_4$, and for the differences $\mu_1 - \mu_2, \mu_1 - \mu_3$ etc.

5. The following data are the results from a randomized block experiment, which was set up to compare four treatments.

		<i>Treatment</i>			
		1	2	3	4
Block	1	6	8	7	11
	2	5	6	6	8
	3	9	9	11	12

Test the hypothesis that there is no difference between the treatments.

(Test using $\alpha = 0.05$)