

PISc 724 - HOMEWORK #6

1. Given the following data set for an experiment conducted as an RCBD with sampling:

Treatment	Replicate 1		Replicate 2		Replicate 3	
	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2
1	30	23	22	26	34	26
2	52	47	47	41	52	43
3	52	60	48	72	52	35
4	63	54	45	53	45	52
5	87	87	83	78	91	89

- a. Do the ANOVA at the 95 and 99% level of confidence using the appropriate method.
- b. Test for differences between means using the LSD (0.05).
- c. Indicate which means are not significantly different using lower case letters.
- d. Calculate the coefficient of variation.

2. Given the following data set for an experiment conducted as an RCBD:

Replicate	Treatments				
	Check	Check	A	B	C
1	30	23	22	26	34
2	52	47	47	41	52
3	52	60	48	72	52
4	63	54	45	53	45
5	87	87	83	78	91

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- b. Test for differences between means using the LSD (0.05).
- c. Indicate which means are not significantly different using lower case letters.
- d. Calculate the coefficient of variation.