

Lab 4

Question 1

You are looking into the rating the interest in three new employee health plans. For this study, you recruit 4 employees randomly and have them assign a rating to each plan. In this study, we consider the employee as a block, and look at the rating effect of each health plan

DATA RCBD;

INPUT WORKER PLAN RATE @@;
CARDS;

1	1	82	1	2	59	1	3	62
2	1	91	2	2	75	2	3	75
3	1	98	3	2	74	3	3	81
4	1	89	4	2	69	4	3	76

;

Questions

1 - Using a Tukey adjustment, compute the family wise confidence intervals for the rating for all three plans.

2 – Are plans 2 and 3 statistically different from 1? HINT: You can double up a contrast statement:

```
contrast 'a v b' trt 1 -1 0  
                trt 1 0 -1;
```

3 – If we assume plans 2 and 3 have the same mean, is that mean different from one?

4 – Does the block account for significant variability?

5 – Are plans 2 and 3 different?

New Questions That I will help you with

1) Assuming the EXACT results of the analysis. What is the power for these tests?