

ISyE 6739 – Group Activity 15

Names:

Group Number:

Problem 1. The response time in millisecond was determined for three different types of circuits in an electronic calculator. The results are recorded here.

Circuit Type	Response				
1	19	22	20	18	25
2	20	21	33	27	40
3	16	15	18	26	17

- Using $\alpha = 0.01$, test the hypothesis that the circuit type affects mean response time.
- Analyze residuals for this experiments.
- Find a 95% confidence interval for on the mean response time for circuit 3.
- Find a 95% confidence interval for on the mean difference response time for circuits 1 and 2.
What conclusion can you draw?
- Run the LSD test and interpret the results.

Bonus Problem. Average points per game obtained by Kobe Bryant and LeBron James for different seasons are given below. Perform ANOVA to test whether their performance is the same or not? Test the same hypothesis using t-test. Assume variances are equal.

Compare the t-statistic with F-statistic. What is the relationship between these two statistics?

LeBron James	29.7	26.7	26.8	27.1	28.3
Kobe Bryant	30	23.9	35.4	31.6	