Assignment 9: ANOVA

# Problem 1:

## Part A:

### Hypothesis:

### Data Distribution Plot:

Chart, scatter chart

Description automatically generated

### ANOVA Analysis:

A picture containing chart

Description automatically generated

***F statistic:* 7.0636**

***p Value:* 0.0011**

***Conclusion:*** Reject the Null Hypothesis. Since p value is less than 0.05, we can reject the null hypothesis, and say that there is at least one mean that is different from the rest.

## Part B:

### Analysis using Turkey’s HSD Method:

Table

Description automatically generated

***Conclusion:*** The “Spray” method appears to be different from all other methods based on ANOVA analysis using Turkey’s HSD Method.

# Problem 2:

## Part A:

### Hypothesis:

### Data Distribution Plot:

Chart, box and whisker chart

Description automatically generated

### ANOVA Analysis:

Diagram

Description automatically generated with medium confidence

**F statistic: 10.0909**

***p Value:* 0.0008**

***Conclusion:*** Reject the Null Hypothesis. Since p value is less than 0.05, we can reject the null hypothesis, and say that there is at least one mean that is different from the rest.

## Part B:

### Analysis using Turkey’s HSD Method:

Graphical user interface, table

Description automatically generated

***Conclusion:*** The “C” method appears to be different from all other methods based on ANOVA analysis using Turkey’s HSD Method.