

Lab Report: One-Way ANOVA

Name(s):

Key Concepts

Provide the definitions / descriptions for the following concepts:

- **analysis of variance (ANOVA):**
- **properties of F distribution:**
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- **treatment / factor:**
- **variance between samples (variation due to treatment):**
- **variance within samples (variation due to error):**
- **F statistic:**
- **numerator degrees of freedom:**
- **denominator degrees of freedom:**

Hypotheses

- State the claim that you are testing.
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- State the null and alternative hypotheses. Let μ_1, μ_2, μ_3 be the population means of a readability measure of the three magazines.
 - H_0 :
 - H_a :
- Is this a right-tailed, left-tailed, or two-tailed test?
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ANOVA

Interpretation

Decisions on Null Hypothesis

Conclusions

Discussion

1. SEN

Claim	
H₀	
H_a	
ANOVA (w/ Statcato)	
Decision on H₀	
Conclusion	

2. 3SYL

Claim	
H₀	
H_a	
ANOVA (w/ Statcato)	
Decision on H₀	

Conclusion	
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3.