

The data below were designed to test whether learning performance (i.e., number of items correct on a task) differs as a function of temperature condition

50°	70°	90°
0	4	1
1	3	2
3	6	2
1	3	0
0	4	0

- Write precise definitions for a null hypothesis \mathcal{H}_0 and alternative hypothesis \mathcal{H}_1 for this scenario.
- Calculate the F statistic for an ANOVA comparing the means of the three groups.
- Calculate and interpret the p -value and Bayes factor associated with your obtained F statistic. Which model (\mathcal{H}_0 or \mathcal{H}_1) receives the most support from the data? Explain.
- Compute a 95% confidence interval for each of the group means.

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