As we did with Lab 1, your job now is to write up the experiment as an APA-formatted manscript. Here are the guidelines:

- 1. Your introduction section should contain the following three items:
 - statement of problem (follow Campbell and Fugelsang; we are trying to determine whether encoding and calculation are functionally independent stages).
 - explain the two competing models. There are lots of ways to do this, but I like to couch it in terms of "additive models" (e.g., Dehaene & Cohen, 1995) versus "interactive models" (e.g., Campbell, 1999).
 - describe our basic experiment (conceptual, not detailed) and lay out what the predictions of the two competing models would be.
- 2. Your Method section is intended to communicate with people who know very little about what was done. Be certain, however, that you include enough information so the study could be replicated. If you are not sure of something (e.g., how the stimuli were chosen, etc.), ask me! Also, looking at the original Campbell & Fugelsang paper will help.
- 3. Pay particular attention to your results section. Please perform the following steps:
 - perform a Bayesian ANOVA in Jasp
 - define the models (there should be 5 of them)
 - explain how the data shifted the prior probabilities of the models into posterior probabilities. In particular, which model was preferred after seeing the data?
 - what was the Bayes factor for this model in terms of overall model odds (i.e., the BF_M column)?
 - what was the Bayes factor for this winning model over the next best fitting model? Use the BF_{10} column to calculate this.
- 1. Like all discussion sections, you should do the following
 - briefly restate the purpose of your study
 - briefly describe your results
 - discuss your results in terms of competing models of mental arithmetic.
 - describe a followup study you could do.
- 2. Your reference section should include at least the following:
 - Campbell & Fugelsang (2001)
 - Dehaene & Cohen (1995)
 - Campbell (1999)
 - at least one more paper related to these.

Your completed manuscript will be submitted on Blackboard.