

Analysis of Variance Homework

From the docs folder on the ECN 201 website, download the spreadsheet `birthweights.xls`. This file contains a listing of birth weights in grams for a large sample of babies, classified according to whether the mother was white, black or “other.”

Using hand-entered formulae in MS Excel (note, not the built-in Excel statistical formulae), find the mean, variance and standard deviation for birthweight in each of the groups.

Use this information to calculate the standard error of the mean for each of the groups, and draw up confidence intervals at the 90%, 95% and 99% level for the true (population) means for the groups.

- § For white vs. black mothers: With what confidence level can we say there really is a difference in mean birthweight?
- § For white vs. “other” mothers: With what confidence level can we say there really is a difference in mean birthweight?