- 1. An entomologist measures egg deposition by the elm spanworm *Ennomos subsignaria*. on trees that have heavily attacked, lightly attacked, or not attacked by spanworm caterpillars. The measurements are made in 4 different locations.
- a) Write a symbol for egg deposition, state a measurement protocol, and assign units appropriate to your protocol.

b) Write a general linear model to analyze egg deposition as it depends on attack level, taking into account differences in location. Use the symbols Xattack and Xlocation for your explanatory variables.

b). Complete an ANOVA table for the analysis, assuming n = 2*3*4 = 24 trees, $SS_{total} = 1000$, $SS_{location} = 300$, $SS_{attack} = 200$, and $SS_{attack*location} = 200$.

Source df SS MS F