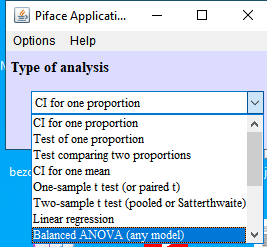
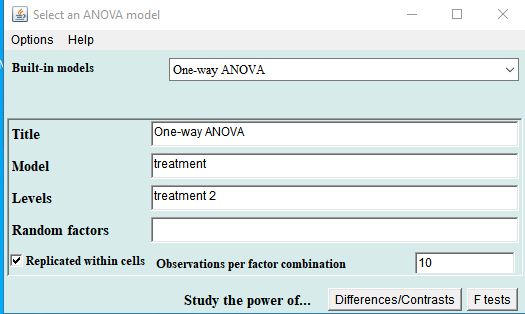
Download Russ Lenth’s sample size:

<https://homepage.divms.uiowa.edu/~rlenth/Power/index.html>

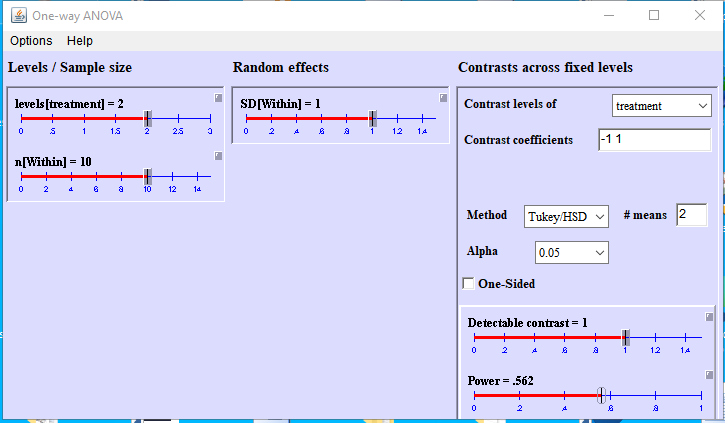
Open the program; choose Balanced ANOVA



Choose “Differences/Contrasts”

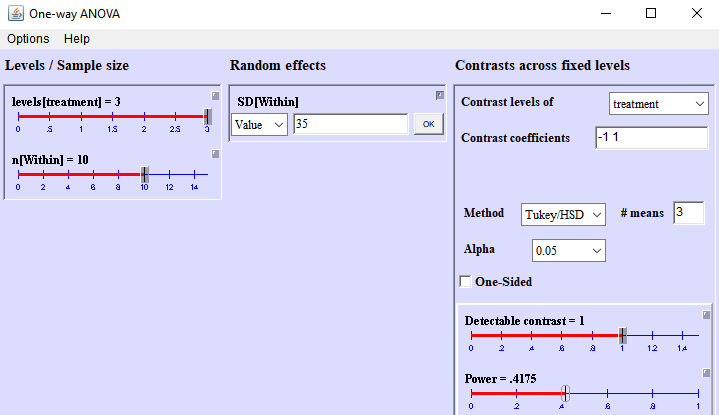


Fill in the SD (here 35) and the number of treatments (including the control group: here 3 i.e. one control group and two experimental groups) and the sample size in each group (here 10)

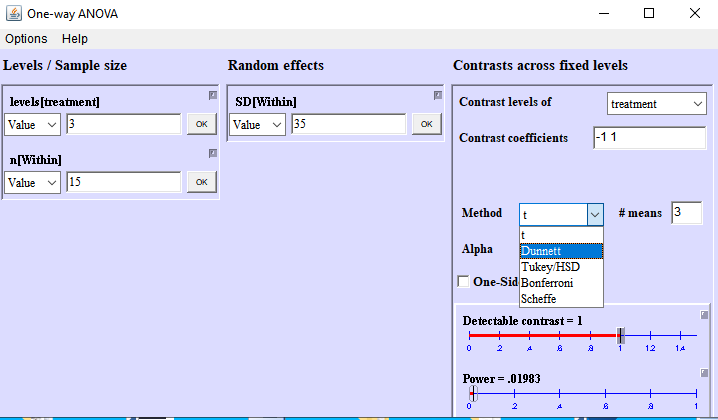


Not that one can click open to fill in any number

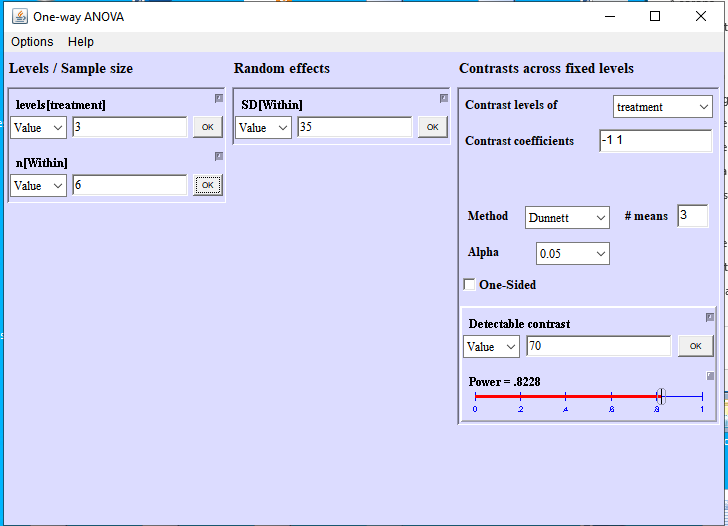
Like this:



and choose Tukey or Dunnett (whichever you want) from the “methods” option list



Note that #means is the number of means (groups) that you analyze. Here three groups with Dunnett’s test. This means one control group to which 2 treatment groups are compared.

For example, for a difference of 100,000 vs 30,000, so 70,000 and SD=35,000, we can fill in (as multiples of 1,000): 

By increasing the “n[Within]”, so the size of each group, one can search which group size has sufficient power.