**Exercise… your POWER**

Please refer to the tutorial, “gpower-tutorial.pdf”. The tutorial is rather extensive, and we recommend that you read it in its entirety at some point. However, for today’s workshop, you can refer to page 14 for a list of tests for which G\*Power can perform power analyses. These pages provide tutorials for the examples you will encounter, below.

**I. ANOVA, with fixed effects.**

Guidance for this case can be found on p. 22 of the tutorial.

Imagine that you are designing an experiment with 3 groups, with expected mean values of 5.0, 5.5, and 7.2. The standard deviation for each group equals 2.3. How many samples are required to detect effects in this scenario, with Power (i.e., 1-β) = 0.9? Assume that alpha (the critical p-value) equals 0.05.