1. The larger the sample size in a given one-way ANOVA analysis, the larger the power of associated tests (e.g., pairwise comparisons).

   True

   False

2. The power of tests associated with a one-way ANOVA analysis are impacted by:

   Sample size

   The units of th response

   The significance level

   The true size of the mean differences across groups

   The within group variability

3. Retrospective power analyses are widely thought to be epistemically unjustified.

   True

   False

4. Prospective power analyses are often used to:

   Choose the effect size

   Choose a sample size to achieve a particular power level

   Minimize the type I error

   Estimate the power of a given study design