Formulas

|  |  |
| --- | --- |
| Sample standard deviation | Population standard deviation |
| Standard error | t |
| *df* = N – 1 |  |
|  |  |
|  |  |
|  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | SS | df | MS | F |
| Between subjects |  |  |  |  |
| Within subjects |  |  |  |  |
| Total |  |  |  |  |

SPSS instructions

Single sample *t*-tests

* Analyze > compare means > one sample t.
* Move dependent variable to right.
* Change test value.
* Hit options to change confidence interval percentage if necessary.
* Hit ok.

Dependent *t*-test

* Analyze > compare means > paired samples t.
* Move over the two levels of the variable to the right.
* Hit options to change confidence interval percentage if necessary.
* Hit ok.
* Remember that MOTE uses SD diff to match what we talked about in class.

Independent t

* Analyze > compare means > independent samples t test.
* Independent variable into grouping variable.
* Hit define groups.
* Enter your group numbers.
* Dependent variable goes into test variables.
* Hit options to change confidence interval percentage if necessary.
* Hit ok.
* Remember MOTE will give you Spooled.

ANOVA

* Analyze > compare means > one way ANOVA
* Dependent variable goes into the dependent list.
* Independent variable goes into the factor spot.
* Click post hoc.
* Pick your favorite post hoc correction.
* Click options.
* Pick descriptives and homogeneity of variance test.
* Hit ok.