**BF[1] – Why We Do It Quiz**

1. What are two reasons for choosing factorial treatment structure (2 pts)?

To study the effects of two or more sets of conditions in a single experiment.

To study how sets of conditions interact.

1. When are two sets of treatments crossed (2 pts)?

If all possible combinations of treatments occur in the design.

1. What are a list of items that that you do to perform the two-way completely randomized experiment (2 pts)?

The treatment combinations come from crossing two basic treatment factors.

Treatment combinations are assigned to units completely at random, as in any CR experiment.

For balance each treatment combination is assigned to the same number of units.

If you want to measure interaction in a two-way design, you must have more than one observation per cell.

1. What are the three structural factors in a two-way BF design (2 pts)?

First treatment factor

Second treatment factor

Interaction