**Enrichment - Power**

Part I – Individual Quiz (Before Class)

Part II – Group Quiz (During Class)

1. What is the notation for a BF[1] model (4 pts)?

Yij = µ + αi + εij

**End of Part I**

1. Were you in class on time (2 pts)?

YES

1. For Fish Data (2 pts)
2. Suppose we are planning a fruit fly study (3 points).

α =0.05

n =20 observations per group

I = 4 groups

Would like to consider power for the case where three of the groups have the same and one group has .

Assume that nearly all (about 99.7%) of flies live between 30 and 100 days. ()

**Determine the power of this test**

power = 0.2426524

* Suppose we are planning a fruit fly study (3 points).

α =0.05

Power = 0.85

I = 4 groups

Would like to consider power for the case where three of the groups have the same and one group has .

Assume that nearly all (about 99.7%) of flies live between 30 and 100 days. ()

**Determine the sample size needed per group for this test.**

n = 90.33118