Week 9 Polling

The one-way between-subjects ANOVA is used when different participants are assigned to _____ group(s).

One

Two

Two or more

Zero

What is the between-groups degrees of freedom for a study with n = 12 in each of four groups?

32

36

What is the within-groups degrees of freedom for a study with n = 10 in each of three groups?

$$df = N - K$$
 $N = 10(3) = 30$

30

27

Homogeneity of variance refers to the assumption that:

Data in the population or populations being sampled from are normally distributed

The variance of scores in each population is equal

The probabilities of each measured outcome in a study are independent

The data were selected using a random sampling procedure

A researcher randomly assigns 33 adults to have a conversation with someone dressed casually, informally, or formally. Duration of eye contact (in seconds) was recorded. SSbetween = 30, SSwithin = 104. Set up the ANOVA table & make a decision (alpha=.05).

Reject the null hypothesis

Tota 1

134

Fail to reject the null hypothesis

What is eta-squared for the previous problem?

$$\int_{0}^{2} = \frac{30}{134} = 0.22$$

.22

.29

We should not calculate eta-squared because we did not find a significant effect.