Assumptions of chi-square test

- 1) random sampling
- 2 mutually exclusive groups.
- 3) observations are independent samples

ANOVA: Analysis of Variance.

product vo incerne

11-10 1 bat

idea: apply multiple 7-1001 3 - test.

10 categories: [10c2] = 45 t-test

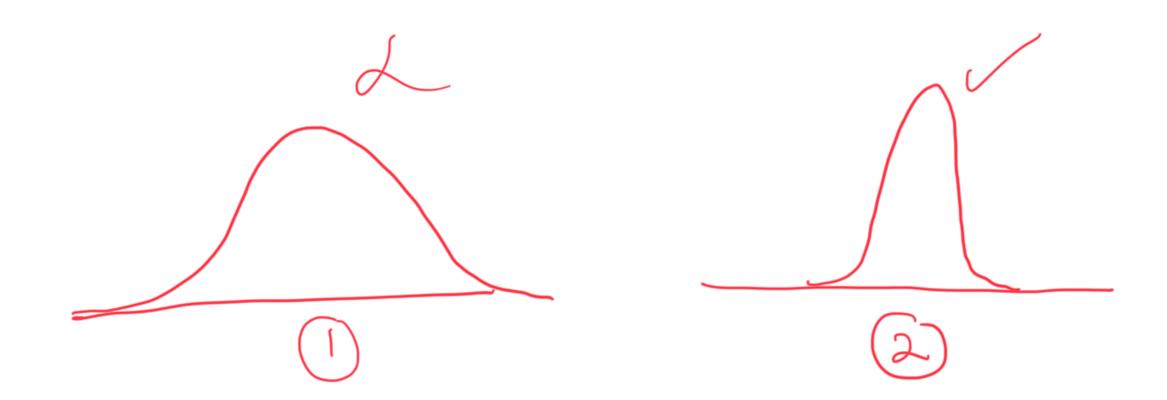
ANOVA:

Ho: the means of all the group are same

Ha: at least one group has a diff mean.

nomenta: Product:

One- way

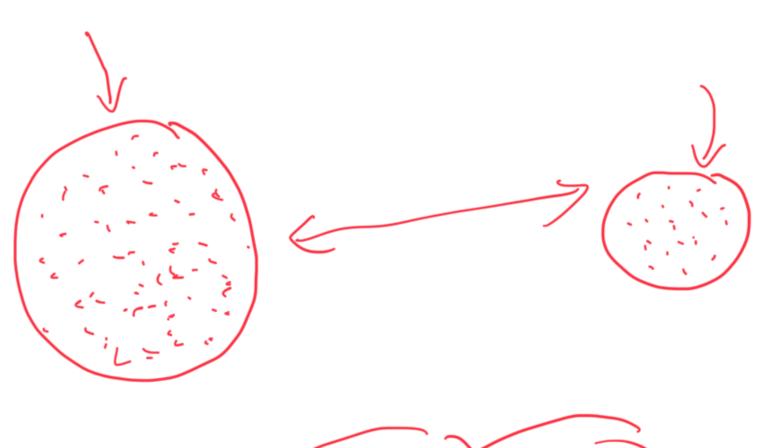


ANOVA

- (†) variance within, groups √
- 2 variance letween groups. ?

Fration: if group are actually different

- variance leturen grups variance vithin groups.



Anoumptions of ANOVA

-> data is gaussian

-> samples are independent

Kruskal - Wallos test (no normality ansumption.

Ho: no dry in the mean of groups.

Ha: at least 1 is different from others.

-> robust to outliers.