

ANOVA:

Why is it called “analysis of variance” when means are being compared?

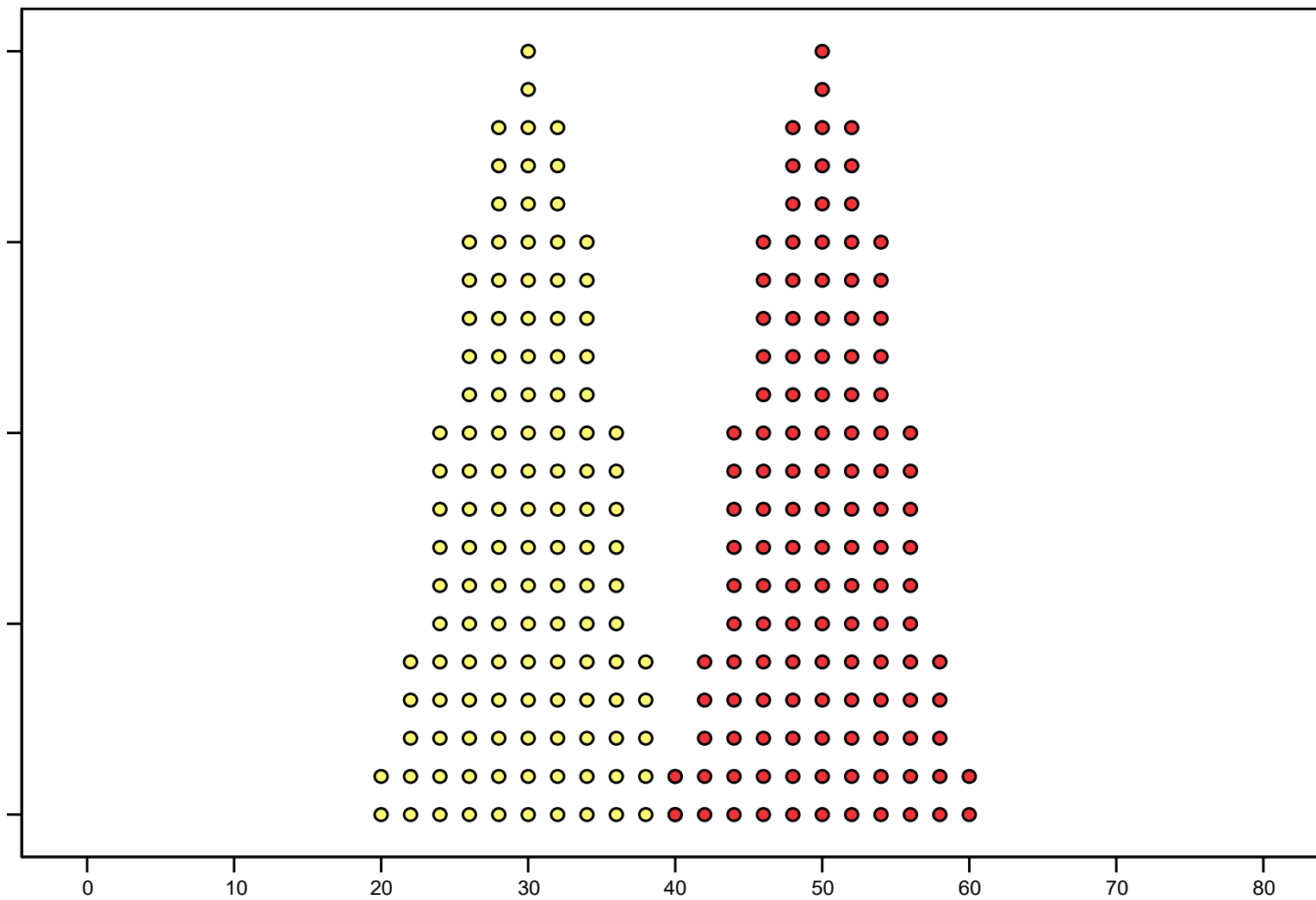
COM 631

# ANOVA family

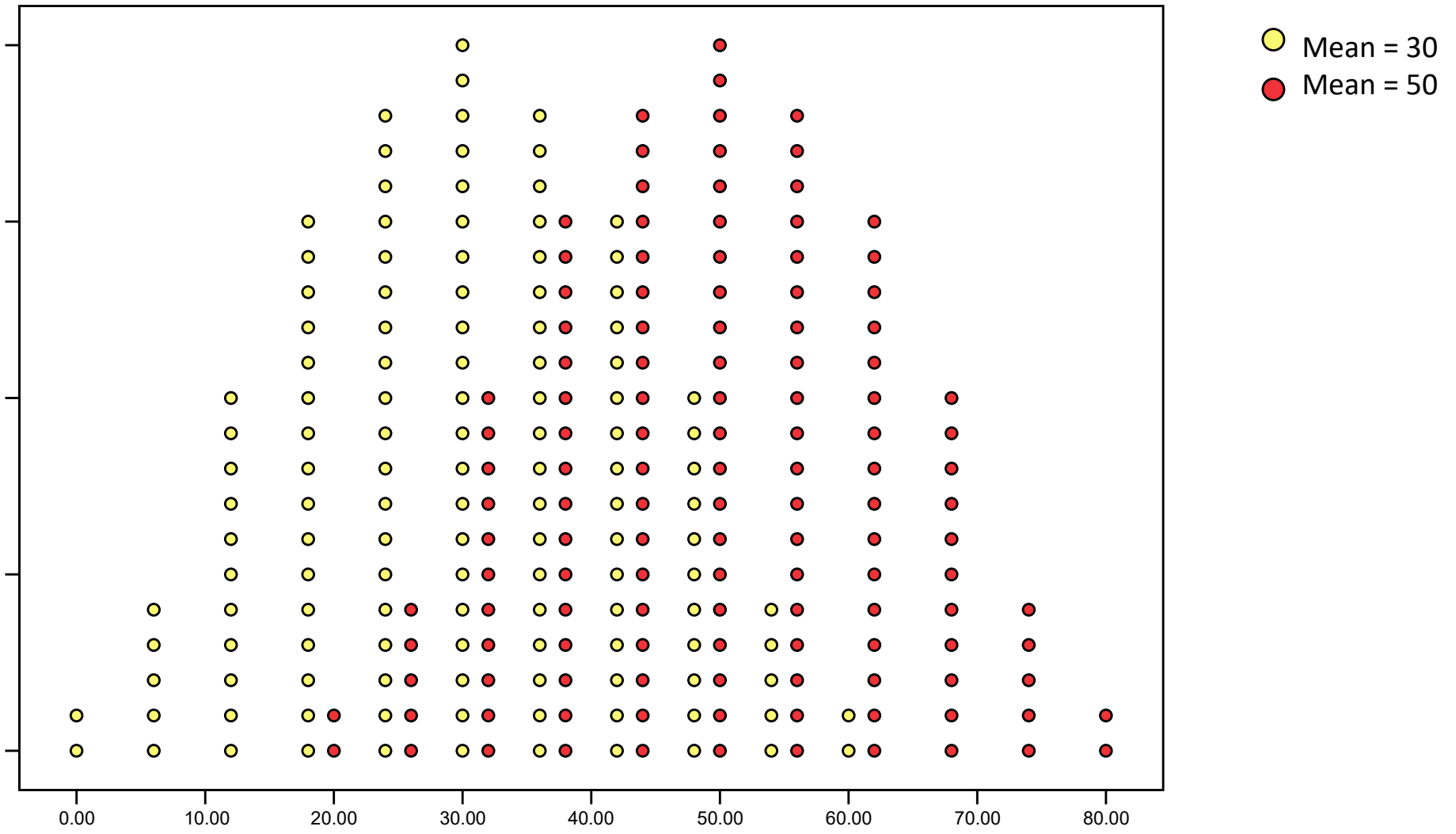
Name of Statistic/ Statistical Procedure	"Groups"	DVs (which means are calculated for the groups)	Covariates?
1: t-test	one IV (binomial)	one DV (I/R)	--
2: F-test	one IV (nominal)	one DV (I/R)	--
3: Two-way ANOVA	two IVs (nom)	one DV (I/R)	--
4: Multiple-factor ANOVA	two+ IVs (nom)	one DV (I/R)	--
5: MANOVA	two+ IVs (nom)	two+ DVs (I/R)	--
6: ANCOVA	two+ IVs (nom)	one DV (I/R)	one+ covariates (controls)
7: MANCOVA	two+ IVs (nom)	two+ DVs (I/R)	one+ covariates (controls)

# ANOVA

- Again, why is it called “analysis of variance” when it’s the means that are being compared across groups?



● Mean = 30  
● Mean = 50



end