

Midterm F11 Review

Be familiar with these ideas and you'll do well:

Boxplots

Five-number summary

Symmetry/Skewness

Modality (unimodal, etc)

Outliers

Histogram

Population parameters (μ , σ)

defining in the context of a problem

Sample statistics (\bar{y} , s , n)

One-sample t-test

Null and alternative hypotheses

state in notation and words

p-value

how used for deciding between hypotheses

interpretation

significance level (α) for test and CI

stating conclusion of hypothesis test

CI confidence interval

interpretation

using for hypothesis test

Type-I and Type-II errors

definitions

when can you make each

Normal probability plot and tests

Paired data, how to identify

Two-sample t-test

Null and alternative hypotheses

state in notation and words

Pooled versus Satterthwaite

How to tell these apart

pooled var, degrees-of-freedom df

assumptions

ANOVA

Null and alternative hypotheses

state in notation and words

F-test

Pairwise (multiple) comparisons

Fisher (LSD), Tukey, and Bonferroni

How to tell which is being used from output