

Review for Midterm

Types of questions

1. True or false questions.
2. Given a partial of SAS output, fill in the missing values, and then answer questions.
3. Identify design(s) if you're given a problem; write statistical model with assumptions, answer questions.

Concepts:

- 1) Issues in experimental design
- 2) Nuisance factor and factor of interest
- 3) Type I & II errors & power
- 4) Descriptive & inferential statistics
- 5) Population vs sample
- 6) Sampling distribution & Central limit theorem
- 7) Several often used distributions
- 8) tests on means & variances (1-sample, two-sample)
- 9) sample size / power determination
- 10) hypothesis test & confidence interval
- 11) chapter 3: one-way anova (effect model) / model adequacy checking / contrast / simultaneous confidence intervals / non-parametric ANOVA
- 12) designs in chapter 4 & corresponding ANOVA models / model adequacy checking
- 13) chapter 5: factorial designs – only concepts

t-table, F-table