

The t Test for Two Independent Samples

PSY 2113

Learning Outcomes

1

- Understand structure of research study appropriate for independent-measures t hypothesis test

2

- Test difference between two populations using independent-measures t statistic

3

- Test difference between two treatment groups using independent-measures t statistic

4

- Evaluate magnitude of mean difference using Cohen's d

5

- Evaluate magnitude of mean difference using r^2

Concepts to Review

- Sample variance (Chapter 4)
- Standard error formulas (Chapter 7)
- The t statistic (chapter 9)
 - Distribution of t values
 - df for the t statistic
 - Estimated standard error