

EPSY 5261 : Introductory Statistical Methods

Day 29
Review

Learning Goals

- At the end of this lesson, you should be able to...
 - Identify which method to use for a particular research question

Review Method Table

Method	How many variables are involved? Is each variable categorical or quantitative?	What is the parameter we are trying to estimate or test a hypothesis about (in notation form)?
Interval for a single proportion		
Test for a single proportion		
Interval for a single mean		
Test for a single mean		
Interval for a difference in proportions		
Test for a difference in proportions		
Interval for a difference in means		
Test for a difference in means		
Simple linear regression		

Method	How many variables are involved? Is each variable categorical or quantitative?	What is the parameter we are trying to estimate or test a hypothesis about (in notation form)?
Interval for a single proportion	One variable/categorical	p (population proportion)
Test for a single proportion		
Interval for a single mean	One variable/quantitative	μ (population mean)
Test for a single mean		
Interval for a difference in proportions	Two variables/ both categorical	$p_1 - p_2$ (difference between the two population proportions)
Test for a difference in proportions		
Interval for a difference in means	Two variables One variable categorical (explanatory) One variable quantitative (response)	$\mu_1 - \mu_2$ (difference between the two population means)
Test for a difference in means		
Simple linear regression	Two variables/ both quantitative	$\beta_0 + \beta_1 X$ where β_0 is the y-intercept and β_1 is the slope

More Statistics

More EPSY Statistics Courses

- * EPSY 5262: Continuation of this course
 - * Focus on multiple linear regression
- * EPSY 5221: Measurement
- * EPSY 5244: Survey Design
- * EPSY 8251: Advanced Statistical Methods
 - * More R Studio work
 - * Multiple Regression and Beyond