

Check Your Understanding

Hypothesis Testing



Steps in Hypothesis Testing

- Steps involved in hypothesis testing
 - State null hypothesis
 - Conduct the study
 - Employ statistic to data to answer question
 - Tells us the probability of our findings being due to chance variations
 - Interpret the statistic p value
 - Reject or do not reject the null hypothesis
 - Reject = there is a statistical difference
 - Do not reject = there is no statistical difference
- Inferential statistics
 - Using a sample to infer back to a population
 - Is our finding due to chance or is there a true



Interpret the statistic

- Level of Significance
 - Probability of being wrong in rejecting the null (Type I error)
 - We reject the null hypothesis when $p \text{ value} < .05$
 - Will be wrong in rejecting the null 5/100 times or 5%



Test Your Understanding

- Reject or do not reject? Is there a difference btw groups?
 - $p = .04$
 - $p = .35$
 - $p < .01$
 - $p > .05$

