

Lesson 60: Comparing proportions from two groups (significance test)

Daily Data Collection

Step 1: take an online political compass test at politicalcompass.org

Step 2: Report 3 items about yourself:

Approve of President (Y/N),

Left/Right,

Libertarian/Authoritarian

Step 3: Test my claim that there is a significant difference of opinion between those on left and right. One-sided Test.

Step 4: Test my claim that there is no difference of opinion between those who identify as libertarian and authoritarian. Two-sided Test

Old Thinking

	Left	Right	Libertarian	Authoritarian
Approve =				
N =				
Proportion =				
St. Dev. of Prop =				
p-value given Ho: $p = 0.5$ Ha: $p \neq 0.5$				
Reject?				

Conclusions:

New Thinking

	Right – Left	Authoritarian – Libertarian
$P_1 - P_2 =$		
Hypotheses =		
St. Dev. of $P_m - P_f =$		
p-value =		
Reject?		

Conclusions:

Daily Data Collection

Collect more data in class on the difference between two populations.

Example: Students enrolled in band course less than those not enrolled in band.