

Lesson 67 – Association

The chi-square test of association/independence

- A single SRS is drawn from a population, and observations are classified according to two categorical variables.
- The null hypothesis is that there is no relationship between the row variable and the column variable.
- The alternate hypothesis is that there is a relationship between the row variable and the column variable.
- Other key words that can replace “relationship” are “association” and “independence”

Daily Data Collection

Test if an association exists between the following:
Men make better leaders (Yes or No)
How Religious are you (Not Religious, Somewhat Religious, Very Religious)

Ho:

Ha:

	Not Religious	Somewhat Religious	Very Religious
Yes =			
No =			

Total X^2 Value:

P-value:

Conclusion:

Create your own test to run.

Ideas:

Require vaccinations for kids to attend public schools vs. Did you get the HPV vaccine

Cheat on test vs broken athletic code of conduct

Rules here are (too strict, ok, too lenient) vs. political leaning