

SPSS Chi-square Example

Syntax

```
get file='c:\jason\spsswin\usp534\chisq.sav'.

crosstabs tables=party by candidat
  /cells=count row column
  /statistics=chisquare phi.
```

Output

party voters party * candidat candidate Crosstabulation

			candidat candidate		Total
			.00 Dudley	1.00 Kitzhaber	
party voters party	.00 Republican	Count	180	90	270
		% within party voters party	66.7%	33.3%	100.0%
		% within candidat candidate	75.0%	34.6%	54.0%
		% of Total	36.0%	18.0%	54.0%
1.00 Democrat	1.00 Democrat	Count	60	170	230
		% within party voters party	26.1%	73.9%	100.0%
		% within candidat candidate	25.0%	65.4%	46.0%
		% of Total	12.0%	34.0%	46.0%
Total		Count	240	260	500
		% within party voters party	48.0%	52.0%	100.0%
		% within candidat candidate	100.0%	100.0%	100.0%
		% of Total	48.0%	52.0%	100.0%

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	81.940 ^a	1	.000		
Continuity Correction ^b	80.322	1	.000		
Likelihood Ratio	84.606	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	81.776	1	.000		
N of Valid Cases	500				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 110.40.

b. Computed only for a 2x2 table

Symmetric Measures

		Value	Approx. Sig.
Nominal by Nominal	Phi	.405	.000
	Cramer's V	.405	.000
N of Valid Cases		500	