

Figure 14.5

SPSS Screenshot of Output With Total Number of Responses; Output of Observed Frequencies, Row Totals, and Column Totals; and Chi-Square Test of Independence

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Political_Affiliation *	58	100.0%	0	.0%	58	100.0%
Policy_Opinion						

Total N:
The total
number of
responses

Political_Affiliation * Policy_Opinion Crosstabulation

			Policy_Opinion		Total
			Approve	Disapprove	
Political_Affiliation	Democrat	Count	15	7	22
		Expected Count	9.1	12.9	22.0
	Republican	Count	2	20	22
		Expected Count	9.1	12.9	22.0
	Independent	Count	7	7	14
		Expected Count	5.8	8.2	14.0
Total	Count		24	34	58
	Expected Count		24.0	34.0	58.0

Total: The
row totals

Count: The
observed
frequency for
each category
(OF)

**Expected
Count:** The
expected
frequency for
each category
(EF)

Total: The
column totals

Chi-Square Tests

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	16.400 ^a	2	.000
Likelihood Ratio	18.339	2	.000
Linear-by-Linear Association	2.553	1	.110
N of Valid Cases	58		

Asymp. Sig. The probability of
obtaining a χ^2 this extreme or
more extreme if the null
hypothesis is true
Reject H_0 if $p < \alpha$

df: degrees of freedom;
(Columns - 1) * (Rows - 1)

a. 0 cells (.0%) have expected count less than 5. The minimum
expected count is 5.79.

Chi-square: Obtained χ^2

$$\sum \frac{(OF - EF)^2}{EF}$$