Chi Square $\left(\chi^2\right)$

Does the amount of littering (or not littering) depend on the amount of existing rubbish on the ground?

$N = 358$

Data are *frequencies* of people in each cell out of all 358 participants.

Note: Participants have been *categorized* based on their littering behavior and the environment they were in.

Littering Behavior	Existing Rubbish on Ground: 0-1 Piece	2-4 Pieces	8-16 Pieces
Not Litter	102	91	71
Littered	17	28	49

Cialdini, R. B., Reno, R. R. & Kallagren, C. A. (1990). A focus theory of normative conduct: Recycling the concept of norms to reduce littering in public places. *Journal of Personality and Social Psychology, 58,* 1015-1020.

```
CROSSTABS
  /TABLES=litter  BY rubbish
  /FORMAT= AVALUE TABLES
  /STATISTIC=CHISQ
  /CELLS= COUNT EXPECTED
  /COUNT ROUND CELL .
```

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
litter * rubbish	358	100.0%	0	.0%	358	100.0%

litter * rubbish Crosstabulation

			rubbish			Total
			1.00	2.00	3.00	
litter	No	Count	102	91	71	264
		Expected Count	87.8	87.8	88.5	264.0
	Yes	Count	17	28	49	94
		Expected Count	31.2	31.2	31.5	94.0
Total		Count	119	119	120	358
		Expected Count	119.0	119.0	120.0	358.0

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	22.433[a]	2	.000
Likelihood Ratio	22.463	2	.000
Linear-by-Linear Association	21.706	1	.000
N of Valid Cases	358		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 31.25.

Chi Square $\left(\chi^2\right)$

Do introverts and extroverts differ in their color preferences (e.g., red, yellow, green, or blue)?

$N = 150$

Data are *frequencies* of students in each cell out of all 150 students.

Note: Students have been *categorized* only; we do not have their score on a self-esteem inventory.

Academic Performance	Level of Self-Esteem: High	Med	Low
High	17	32	11
Low	13	43	34