

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

# Social Science Statistics

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

## Chi-Square Calculator

Success! The contingency table below provides the following information: the observed cell totals, (the expected cell totals) and [the chi-square statistic for each cell].

The chi-square statistic, *p*-value and statement of significance appear beneath the table. Blue means you're dealing with dependent variables; red, independent.

	Results					
	um	dois	tres	quatro	cincoumais	Row Totals
veadeirosint	955 (1064.92) [11.35]	781 (762.19) [0.46]	453 (399.13) [7.27]	166 (140.94) [4.46]	46 (33.82) [4.38]	2401
veadeiorsext	934 (824.08) [14.66]	571 (589.81) [0.60]	255 (308.87) [9.39]	84 (109.06) [5.76]	14 (26.18) [5.66]	1858
Column Totals	1889	1352	708	250	60	4259 (Grand Total)

The chi-square statistic is 63.998. The *p*-value is < 0.00001. The result is significant at *p* < .05.

Want to know how to report the result of your chi-square test (APA style)? (Opens in a new tab so you don't lose your result.)

[How to Report a Chi-Square Result](#)

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Statistics

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### Alternative Chi-Square Calculators

- Simple 2 x 2 table calculator
- Fisher exact test
- Goodness of fit calculator

