

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

# Social Science Statistics

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

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## Chi-Square Calculator

Okay, we've set up a 2 x 4 contingency table, and we're almost ready to do the chi-square calculation. However, before you hit the "Calculate Chi^2" button, you need to select a significance level. It defaults to .05, but you can choose .01 or .10 if you prefer. You should also take a moment to check your data, and hit Reset if you need to start again.

Column and Row Totals						
	um	dois	tres	quatrooumais		Row Totals
lajeadoint	55	48	15	4		122
lajeadoext	91	119	115	161		486
Column Totals	146	167	130	165		608 (Grand Total)



Significance Level:

- ☐ .01  
☒ .05  
☐ .10

Calculate Chi^2

Reset

### Alternative Chi-Square Calculators

[Simple 2 x 2 table calculator](#)

[Fisher exact test](#)

[Goodness of fit calculator](#)

