

Stats Support 7: Two sample case tests, bivariate tables with %, Chi Square Practice questions

Will be taken up in Stats Support on Fri March 13th – at 1130 in W170 and 230 in LH101. Remember you do not need to complete the questions to attend this portion of stats support.

1. We have a sample of Canadian parents of grade 6 children and we asked them to rate the importance of ‘teacher expectancies’ (what the teacher thinks the child will do) on child academic outcomes (what the child actually does). Parents whose oldest child is in grade 6 (n=432) rated the level of importance as an average of 6.43 out of 10 with a standard deviation of .23. Parents who have a second or later child in grade 6 (n=331) rated the level of importance an average of 5.21 out of 10 with a standard deviation 2.39.

1a. Do ‘first time’ parents of grade 6 children rate teacher expectancies as more important than parents who have had more than one child in grade 6?

1b. The proportion of ‘first time’ parents who rate teacher expectancies a 10 out of 10 is .13 or 13%. The proportion of ‘second or after time’ parents is 11% or .11. Do these parents differ in how likely they are to give this extreme ranking of teacher expectancies?

2. Below we have a table relating to the same teacher expectancies, but here we’ve separated the moms and the dads, and provided some combined categories for the scores.

rating of teacher expectancies	gender of parent		
	moms	dads	all parents
1 to 3	142	98	240
4 to 6	157	124	281
7 to 10	103	139	242
total	402	361	763

2a. Name all the parts of this bivariate table.

2b. Add %s to the table in the correct direction. Do you see differences in Y across categories of X?

2c. Are there significant differences between moms and dads in how they rate teacher expectancies?