

1. Read Problem 13.13 (pp. 779-780), and use Minitab to test the observed values in the table against the given probabilities in part e. (Put the different “gender configurations” in one column, the number of families observed in each category in a second column, and the corresponding probabilities in part e. in a third column. Then choose Stat→Tables→Chi-Square GOF Test. Be sure to select “specific proportions”, too.) Show all five steps, and give a post-hoc analysis, if appropriate. Are you surprised by this study? Explain.
2. Use Minitab Assistant (Select Assistant→Hypothesis Tests... and click on Chi-Square GOF in the first column) to do Problem 13.20 (p. 781). Include the graphs Minitab gives you, and write a paragraph explaining your results to a general audience.
3. Download the SCRABBLE dataset from the course webpage, and use Minitab to do Problem 13.21 (p. 781). For part a., show all five steps (but don’t include any post-hoc analysis). For part b., be sure to interpret your confidence interval. (**Caution:** Don’t use the frequencies given in the textbook – they’re incorrect!)