

Lesson 19: Inference for Several Proportions, Goodness-of-Fit, and Independence

Preparation

Solutions

Please note that the steps show rounded numbers, but that the final answers to the problems are calculated without rounding. ->## Solutions

Problem	Part	Solution
1	-	H_0 : The row variable and the column variable are independent H_a : The row variable and the column variable are not independent
2	-	True
3	A	H_0 : Party affiliation and whether they were in favor or against Prop 8 are independent H_a : Party affiliation and whether they were in favor or against Prop 8 are not independent
3	B	That all expected cell counts are greater than 5
3	C	The requirements are met because all expected counts are greater than or equal to five
3	D	$\chi^2 = 33.96$
3	E	$df = 1$
3	F	P-value = 0
3	G	reject the null hypothesis
3	H	We have sufficient evidence to show that the party affiliation and the voters' views on Proposition 8 are not independent.