

HW #3 Solutions

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1:48 AM

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See the accompanying SAS codes on the website

3.1

95% Confidence intervals for the difference of proportions, relative risk, odds ratio are:

.0080, .0090

7.15, 8.72

7.21, 8.80

respectively. (Where in the output?)

3.4

a. Both P-value are nearly 0, suggesting strong relationship between the race and party identification

b. From the residuals, the largest differences between expected and observed comes from black people favoring democrat over republican (compute Pearson residuals!)

c. The 95% CI for the odds ratio is (5.87, 21.05)

3.18

a. No evidence with asymptotic tests. P-values are .4441 (chi-squared) or .4600 (LR).

Using Fisher's exact test, the P-value is .0478, which is more believable given the small cell counts.

b. The 95% CI for the odds ratio: (0.0641, 1.9522) and for the difference of proportions (-.6322, .1277). The difference is not significant.