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Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Questions

1. Are there an equal number of male and female performers on Austin City Limits?
2. Are male performers just as likely to have had a Top 10 hit as female performers?

(13 points possible)

Write Your Conclusion

Answer the question and support your answer with statistics:

First we examined whether there were an equal number of male and female artists on Austin City Limits. In our sample, there were 81 males and 35 females. A chi square goodness of fit test showed that this difference was statistically significant (chi square= 18.24 df=1, $p < .05$). There are more males than females on the show. Second, we asked whether male and female artists were equally likely to have had a Top 10 hit. Approximately 55% of the female artists had a Top 10 hit, and 46% of the

male artists had a Top 10 hit. This difference was not statistically significant. A chi square test of independence found top 10 hits to be independent of gender (chi square= 0.700, df=1, p= 0.403). The assumptions for each test were met.

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