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?

(13/13 points)

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 ✔ **Answer:** males and 35 females ✔ **Answer:** females . A chi square goodness of fit ✔ **Answer:** goodness of fit test showed that this difference was ✔ **Answer:** was statistically significant (chi square= 18.24 ✔ **Answer:** 18.24 df=1, p<.05). There are more males ✔ **Answer:** males than females ✔ **Answer:** 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 ✔ **Answer:** female artists had a Top 10 hit, and 46% of the male ✔ **Answer:** male artists had a Top 10 hit. This difference was not ✔ **Answer:** was not statistically significant. A chi square test of independence found top 10 hits to be independent of ✔ **Answer:** independent of gender (chi square= 0.700, df=1, p= 0.403 ✔ **Answer:** 0.403). The assumptions for each test were ✔ **Answer:** were met.

Reading Check due May 03, 2016 at 17:00 UTC

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Click here for a video explanation of how to answer this question.

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