



Bookmarks



Bookmark

▶ Important Pre-Course Survey

▶ Contact Us

▶ How To Navigate the Course

▶ Discussion Board

▶ Office Hours

▶ Week 0: Introduction to Data (Optional Review)

▶ Week 1: Sampling

▶ Week 2: Hypothesis Testing (One Group Means)

▶ Week 3: Hypothesis Testing (Two Group Means)

▼ Week 4: Hypothesis Testing (Categorical Data)

Readings

Week 4: Hypothesis Testing (Categorical Data) &gt; Pre-Lab &gt; Draw Conclusions

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?

(13/13 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 

### Lecture Videos


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

### R Tutorial Videos


### Pre-Lab

Pre-Lab due May 03,  
2016 at 17:00 UTC 

### Lab

Lab due May 03, 2016  
at 17:00 UTC 

### Problem Set

Problem Set due May  
03, 2016 at 17:00 UTC 

[Click here for a video explanation of how to answer this question.](#)

*You have used 1 of 1 submissions*

© All Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

POWERED BY  
OPENedX

