Primary Research Question

For artists age 30 or older, do female artists play different kinds of music on Austin City Limits than male artists?

Conduct the Analysis in R

1. Type or copy the script from the Prepare for the Analysis section into the Script window of R.
2. Select the portion of the code you wish to run, then press "ctrl+ enter."
3. Output can be found in the Console window.

(6/6 points)

1a. How many male artists are in the 30+ year old artist subset of the Austin City Limits dataset?

77 ✔ **Answer:** 77

77

1b. How many female artists are in the 30+ year old artist subset of the Austin City Limits dataset?

25 ✔ **Answer:** 25

25

2a. To determine the proportion of jazz performers that were male, you would divide _____ by _____.

7 ✔ **Answer:** 7

7

R Tutorial Videos

Pre-Lab
Pre-Lab due Mar 15, 2016 at 18:00 UTC

Lab
Lab due Mar 15, 2016 at 18:00 UTC

Problem Set
Problem Set due Mar 15, 2016 at 18:00 UTC

▸ Week 5: Linear Functions

11 ✔ **Answer:** 11

11

2b. To determine the proportion of males that performed jazz, you would divide _____ by _____.

7 ✔ **Answer:** 7

7

77 ✔ **Answer:** 77

77

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

You have used 1 of 1 submissions

(2/2 points)

3a. Which table should you look at to determine how many artists performed rock/folk/indie music: genre or gender?

genre ✔ **Answer:** genre

3b. How many artists performed rock/folk/indie music?

61 ✔ **Answer:** 61

61

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

You have used 1 of 1 submissions

(2/2 points)

4a. Which of these lines of code provides the probability that a randomly selected artist from the dataset performed rock/folk/indie music?

prop.table(genre) ✔ **Answer:** prop.table(genre)

4b. What is the probability that a randomly selected artist from the dataset performed rock/folk/indie music?

0.598 ✔ **Answer:** 0.598

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

You have used 1 of 1 submissions

(2/2 points)

5a. Which of these lines of code provides the probability that a randomly selected female artist performed rock/folk/indie music?

prop.table(twoway,1) ✔ **Answer:** prop.table(twoway,1)

5b. What is the probability that a randomly selected female artist performed rock/folk/indie music?

0.320 ✔ **Answer:** 0.320

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

You have used 1 of 1 submissions

(1/1 point)

6. For genre and gender to be independent, which of the following statements must be true?

- P(rock)*P(female) = P(rock) + P(female)
- P(rock) = P(rock|female) ✔
- P(female) = P(rock)/P(female)
- P(rock)=P(female/rock)

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

You have used 1 of 1 submissions