

Course > Week... > Pre-L... > Cond...

# **Conduct the Analysis**

Analyze the Data

#### **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

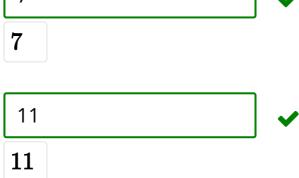
- 1. Type or copy the script from the Prepare for the Analysis section into the Script window of R.
- 2. Select the portion of the code you wish to run, then press "ctrl+ enter."
- 3. Output can be found in the Console window.

### problem

6/6 points (graded)

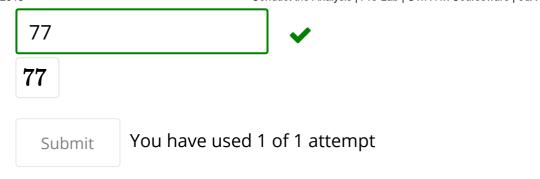
1a. How many male artists are in the 30+ year old artist subset of the Austin City Limits dataset?

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1b. How many female artist Austin City Limits dataset?	s are in the 30+ year old artist subset of the
25	<b>✓</b>
25	
• •	rtion of jazz performers that were male, you (Enter responses in the order listed in
7	<b>✓</b>



2b. To determine the proportion of males that performed jazz, you would divide \_\_\_\_\_ by \_\_\_\_. (Enter responses in the order listed in the quesiton.)





## problem

2/2 points (graded)

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



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



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### problem

2/2 points (graded)

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



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



### problem

2/2 points (graded)

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



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



### problem

1/1 point (graded)

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)

Submit

You have used 1 of 1 attempt

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