

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

Conduct the Analysis

Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Question

For the 2013 season, is there a linear relationship between how often a rider placed in the Top 10 and the number of times he stayed on his bull for a full 8 seconds?

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

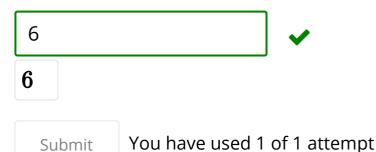
2/2 points (graded)

What do the histogram and descriptive statistics tell us about the distribution of the **Rides13** variable?

1a. On average, a bull rider in 2013 has how many rides? (Report the median becuase the histogram is not symmetrical.)



1b. These bull riders made it into the Top 10 an average of _____times in 2013. (Hint: Remember again that the histogram is not symmetrical.)

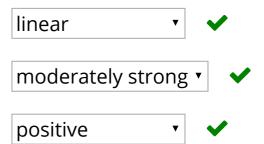


problem

4/4 points (graded)

What does the scatterplot show us?

2a. The relationship looks _____, ____, and _____.



2b. It looks like bull riders that appear frequently in the Top 10 list tend to have a _____ number of successful rides.



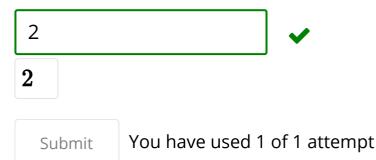
problem

2/2 points (graded)

3a. The correlation, rounded to three decimal places, between the number of Top 10 appearances and the number of successful rides for 2013 is r =



3b. How many times does this value appear in the correlation matrix? (Report as a numeral)



problem

2/2 points (graded)

Conduct the Analysis | Pre-Lab | UT.7.11x Courseware | edX 4. On the scatterplot, we see a data point with a fairly large residual. This rider had 22 rides, but he only placed in the Top 10 two times. This rider's data point falls _____ the line of best fit. If his data followed the line of best fit, he should have placed in the Top 10 about _____ times. below 6 You have used 1 of 1 attempt Submit problem 1/1 point (graded) Use this code to help identify this rider: #identify a specific record which(new bull\$Top10 13==2 & new bull\$Rides13==22) 5. After looking at the data for this rider, can you explain **why** he has placed in the Top 10 so few times? He weighs more than 200 pounds, so he is too heavy. He had only 12 rides, so he was not able to be competitive for the Top 10. • He did not participate in any events during the 2013 season.

● His ride percentage was only about 33%, which wasn't high enough to place him in the Top 10. Submit

You have used 1 of 1 attempt

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