edX   **UTAustinX:** UT.7.20x Foundations of Data Analysis - Part 2

Week 2: Hypothesis Testing (One Group Means) > Lab > Draw Conclusions

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Lab

Reflect on the Question ✓   Analyze the Data ✓   **Draw Conclusions**

Primary Research Question

Do professional bull riders stay on their bulls 50% of the time? Test the hypothesis that the mean ride percentage is 50%.

(8/8 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

The distribution of the percentage of time a professional bull rider stays on the bull for this sample is [approximately normal ▾]   ✓

Answer: approximately normal , with a mean of [33.50% ▾]   ✓

Answer: 33.50% , and a [standard deviation ▾]   ✓

Answer: standard deviation of 10.7%. We found that their mean ride percentage [is ▾]   ✓   Answer: is significantly different from 50%, with t= [-10.05 ▾]   ✓   Answer: -10.05 , p<0.05. We are [95% ▾]   ✓

Answer: 95% confident that the true mean of ride percentage of professional bull riders is between [30.1% ▾]   ✓   Answer: 30.1% and [36.8% ▾]   ✓   Answer: 36.8% suggesting that professional bull riders ride the full 8 seconds about 1/3 of the time.

You have used 1 of 1 submissions

Lab due May 03, 2016
at 17:00 UTC

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