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Analyze the Data

Primary Research Question

Do professional bull riders stay on their bulls at least 50% of the time? Test the hypothesis that the mean ride percentage is 50%. (Hint: Two-sided test.)

Analysis

Let's break this question down into the different descriptive statistics that you will need to construct your answer. Be sure that your R output includes all of the following components.

- 1. Calculate the sample mean and standard deviation of ride percentage.
- 2. Generate a histogram to look at the distribution of ride percentage.
- 3. Confirm the assumptions of a one-sample t-test
- 4. Run the t-test and interpret the results.

1 of 5 02/27/2015 06:58 PM (2 points possible)

Descriptive Statistics

1a. What was the average ride **percentage**? (round to 1 decimal place)

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1b. What was the standard deviation of ride **percentage**? (round to 1 decimal place)



Answer: 12.2

Hide Answer

You have used 0 of 1 submissions

(3 points possible)

Test Statistics

2 of 2a. What is the value of the **t-statistic**? (round absolute value to 2 decimal places)

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_	Answer: 6.35	
ב ב		
	2b. How many degrees of freedom ?	
/		
	Answer: 37	
	2c. The p-value was 0.001.	
	less than	
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3 of 5 02/27/2015 06:58 PM

3. What **decision** should you reach, based on these test results?



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5 of 5 02/27/2015 06:58 PM