Primary Research Question

How many of the cyclists were students, how often did they ride, and what was the average distance they rode?

Conduct the Analysis in R

Now you are ready to run the analysis in R. You will upload the script into R and then look at the output to answer the lab questions. Follow these directions.

1. Cut and paste the script into the R Script window.
2. Place the cursor on the line of code you wish to run and then press "ctrl + enter" for PC or "command + r" for Mac.
3. Look in the console window for the output.

Here is the script you will use:

```
# Import the BikeData dataset, name it "bike"

# Find the number of students in the dataset
table(bike$student)

# Pull out student data into a new dataframe
student <-bike[bike$student==1,]

# Find how often the students ride, using the new dataframe
table(student$cyc_freq)

# Create a vector for the distance variable
distance <-student$distance

# Find average distance ridden
mean(distance)
```

(1/1 point)

1. How many **students** are in the dataset? *(Hint: Look at the output for table(bike$student).)*

14 ✔ **Answer:** 14

14

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

You have used 1 of 1 submissions

(1/1 point)

2. How many variables are in the new data frame "**student**"? *(Hint: Look in your Workspace for the new dataframe.)*

9 ✔ **Answer:** 9

9

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

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(1/1 point)

3. We want to know **how often** the students ride. What is the most frequently observed response?

- (•) Daily ✔
- ( ) Less than once a month
- ( ) Several times per month
- ( ) Several times per week

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

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(1/1 point)

4. How is the vector "distance" described in the **workspace**?

- 9 variables
- 14 obs. of 9 variables
- num[1:14] ✔

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

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(1/1 point)

5. How far do students ride **on average**? *(Round to the nearest 0.01)*

- 3.87 miles
- 6.26 miles ✔
- 12.9 miles

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

You have used 1 of 1 submissions