



Bookmarks



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▼ Week 1: Introduction to Data

Readings

Reading Check due Mar 15, 2016 at 18:00 UTC

Lecture Videos

Comprehension Check due Mar 15, 2016 at 18:00 UTC

R Tutorial Videos

due Mar 15, 2016 at 18:00 UTC

Pre-Lab

Pre-Lab due Mar 15, 2016 at 18:00 UTC

Lab

Lab due Mar 15, 2016 at 18:00 UTC

► Week 2: Univariate Descriptive Statistics

Week 1: Introduction to Data > Pre-Lab > Conduct the Analysis

Reflect on the Question

Analyze the Data

Draw Conclusions

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)

► Week 3:
Bivariate
Distributions

► Week 4:
Bivariate
Distributions
(Categorical
Data)

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

✓ Answer: 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.*)

✓ Answer: 9

[Click here for a video explanation of how to answer this question.](#)

You have used 1 of 1 submissions

(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.](#)

You have used 1 of 1 submissions

(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.](#)

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