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12

10 points

(no answer)

Too small a binwidth of a histogram can lead to too much detail.

True

False

(no answer)

Correct Answer: True

13

10 points

If `x <- mileage` and `y <- weight`, what plot do you expect with the *formula* argument for `plot(y~x)`?

☐ mileage on the y-axis and weight on the x-axis

☐ mileage vs. weight

☐ weight vs. mileage

Missed Option - Incorrect

☐ mileage on the x-axis and weight on the y-axis

Missed Option - Incorrect

(no answer)

Correct Answer: `weight ~ mileage`

14

10 points

Which command displays a logarithmic transformation of the mileage `mpg` in the `mtcars` dataset?

☐ `ln(hist(mpg))`

☐ `hist(log10(mpg))`

Missed Option - Incorrect

☐ `hist(log(mpg))`

Missed Option - Incorrect

☐ `log10(hist(mpg))`

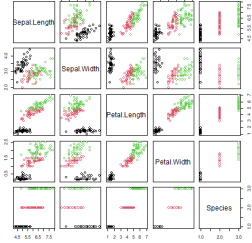
(no answer)

Correct Answer: `hist(log10(mpg))`

15

10 points

Which command plots *all* variables of the built-in `iris` dataset as shown in the plot array?



☐ `barplot(iris, col=Species)`

☐ `ggplot(data=iris,aes(x=y,col=Species))`

☐ `plot(iris, col=iris$Species)`

☐ `plot.array(iris.color)`

☒ (no answer)

Correct Answer: `plot(iris, col=iris$Species)`

16

10 points

Which command imports the file "auto.data" (shown below) to R so that we get a data frame whose column vectors correspond to the columns of the file?

```
18.0 387.0 138.0 3504. 12.0 70 1 "chevrolet malibu"
15.0 350.0 165.0 3693. 11.5 70 1 "buick skylark 320"
18.0 318.0 150.0 3436. 11.0 70 1 "plymouth satellite"
16.0 304.0 150.0 3413. 12.0 70 1 "amc rebel sst"
17.0 302.0 140.0 3449. 10.5 70 1 "ford torino"
15.0 429.0 198.0 4341. 10.0 70 1 "ford galaxie 500"
```

☐ `read.delim(file="auto.data", sep="t", header=TRUE)`

☐ `read.csv(file="auto.data", header=FALSE)`

☐ `read.table(file="auto.data", header=TRUE)`

☐ `read.table(file="auto.data", header=FALSE)`

☒ (no answer)

Correct Answer: `read.table(file="auto.data", header=FALSE)`

17

10 points

What does the height of the bars of a histogram indicate?

☐ Boolean values

☐ Factor levels

☐ Frequency of a variable with continuous numeric values

Missed Option - Incorrect

☐ Count of a numbers in an interval

Missed Option - Incorrect

(no answer)

18

10 points

To use `read.csv` and import a CSV file, you need to first load the `utils` package.

True

False

(no answer)

Correct Answer: False

19

10 points

The `ggplot2` graphics package does not have an explicit histogram geometry.

True

False

(no answer)

Correct Answer: False

20

10 points

Match R and Python data types!

R: logical

(no answer)

Correct Answer: Python: Boolean

R: character

(no answer)

Correct Answer: Python: str

R: numeric

(no answer)

Correct Answer: Python: int, float