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Week 3 Quiz

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5/5 points earned (100%)

Quiz passed!



1/1 points

Take a look at the 'iris' dataset that comes with R. The data can be loaded with the code:

- 1 library(datasets)
- 2 data(iris)

A description of the dataset can be found by running

1 ?iris

There will be an object called 'iris' in your workspace. In this dataset, what is the mean of 'Sepal.Length' for the species *virginica*? **Please round your answer to the nearest whole number**.

1. (Only enter the numeric result and nothing else.)



Correct Response

To get the answer here, you can use 'tapply' to calculate the mean of 'Sepal.Length' within each species.



1/1 points

2.

Continuing with the 'iris' dataset from the previous Question, what R code returns a vector of the means of the variables 'Sepal.Length', 'Sepal.Width', 'Petal.Length', and 'Petal.Width'?		
\bigcirc	apply(iris, 2, mean)	
\bigcirc	rowMeans(iris[, 1:4])	
\bigcirc	apply(iris, 1, mean)	
\bigcirc	apply(iris[, 1:4], 1, mean)	
\bigcirc	colMeans(iris)	
0	apply(iris[, 1:4], 2, mean)	
Corre	ect	
~	1 / 1 points	
3. Load the 'mtcars' dataset in R with the following code		
	library(datasets) data(mtcars)	
There will be an object names 'mtcars' in your workspace. You can find some information about the dataset by running		
1	?mtcars	
How can one calculate the average miles per gallon (mpg) by number of cylinders in the car (cyl)? Select all that apply.		
	tapply(mtcars\$cyl, mtcars\$mpg, mean)	
Un-selected is correct		
✓	with(mtcars, tapply(mpg, cyl, mean))	
Correct		
~	sapply(split(mtcars\$mpg, mtcars\$cyl), mean)	

Correct
apply(mtcars, 2, mean)
Un-selected is correct
split(mtcars, mtcars\$cyl)
Un-selected is correct
mean(mtcars\$mpg, mtcars\$cyl)
Un-selected is correct
sapply(mtcars, cyl, mean)
Un-selected is correct
lapply(mtcars, mean)
Un-selected is correct
tapply(mtcars\$mpg, mtcars\$cyl, mean) Correct
1/1 points
Continuing with the 'mtcars' dataset from the previous Question, what is the absolute difference between the average horsepower of 4-cylinder cars and the average horsepower of 8-cylinder cars?
(Please round your final answer to the nearest whole number . Only 4. enter the numeric result and nothing else.)
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Correct Response

