Section 2 Assessment

Question 1

4/4 points (graded)

Consider the vector `x <- c(2, 43, 27, 96, 18)`.

Match the following outputs to the function which produces that output. Options include `sort(x)`, `order(x)`, `rank(x)` and none of these.

`1, 2, 3, 4, 5`

none of these ✔

`1, 5, 3, 2, 4`

order(x) ✔

`1, 4, 3, 5, 2`

rank(x) ✔

`2, 18, 27, 43, 96`

sort(x) ✔

Submit You have used 3 of 3 attempts

✔ Correct (4/4 points)

Question 2

4/4 points (graded)

Continue working with the vector `x <- c(2, 43, 27, 96, 18)`.

Match the following functions to their output. Options include integers 1 through 5 and none of these

`min(x)`

2 ✔

`which.min(x)`

1 ✔

`max(x)`

none of these ✔

`which.max(x)`

4 ✔

Submit You have used 1 of 2 attempts

✔ Correct (4/4 points)

Question 3

3/3 points (graded)

Mandi, Amy, Nicole, and Olivia all ran different distances in different time intervals. Their distances (in miles) and times (in minutes) are as follows:

```
name <- c("Mandi", "Amy", "Nicole", "Olivia")
distance <- c(0.8, 3.1, 2.8, 4.0)
time <- c(10, 30, 40, 50)
```

Write a line of code to convert time to hours. Remember there are 60 minutes in an hour. Then write a line of code to calculate the speed of each runner in miles per hour. Speed is distance divided by time.

How many hours did Olivia run?

Report 3 significant digits.

0.833 ✔

0.833

What was Mandi's speed in miles per hour?

4.8 ✔

4.8

Which runner had the fastest speed?

Amy ✔

Submit You have used 3 of 10 attempts

✔ Correct (3/3 points)