

DM-Spring-2020-Q1

14 Questions

1. Which of these can be the way of creating a report using R?

- 11/12 ☒ A R Markdown
- 0/12 ☐ B R script
- 0/12 ☐ C R project
- 1/12 ☐ D I do not know

2. Is it interesting to note the mode if the frequencies of all categories are the same?

- 2/12 ☐ A Yes
- 10/12 ☒ B No
- 0/12 ☐ C I do not know

3. Min of x is 100% percentile for x

- 2/12 ☐ A True
- 10/12 ☒ B False
- 0/12 ☐ C I do not know

4. Number of patients in a hospital is

- 7/12 ☒ A A discrete, ratio variable
- 4/12 ☐ B A discrete, nominal variable
- 0/12 ☐ C A continuous, ordinal variable
- 1/12 ☐ D A discrete, interval variable
- 0/12 ☐ E I do not know

5. The temperature in Celsius is

- 0/12 ☐ A A discrete, ratio variable
- 0/12 ☐ B A discrete, nominal variable
- 3/12 ☐ C A discrete, ordinal variable
- 9/12 ☒ D A continuous, interval variable
- 0/12 ☐ E I do not know

6. In simple linear regression model response variable (y) can be

1/12 ☐ A binary

0/12 ☐ B categorical

10/12 ☒ C numeric

0/12 ☐ D ordinal

1/12 ☐ E I do not know

7. Discrete attributes means categorical attributes

3/12 ☐ A True

8/12 ☒ B False

1/12 ☐ C I do not know

8. The following measurement of central tendency is sensitive to outliers

12/12 ☒ A Mean

0/12 ☐ B Trimmed mean

0/12 ☐ C Median

0/12 ☐ D Mode

0/12 ☐ E I do not know

9. What is the range of the variable after standardization?

5/12 ☐ A [-1,1]

0/12 ☐ B [-1,1)

2/12 ☐ C [0,1]

5/12 ☒ D Neither

0/12 ☐ E I do not know

10. Which one is **not** the reason for having missing values?

0/12 ☐ A During a survey some people decline to give information about their income level

0/12 ☐ B During a survey, questions are not applicable for some people (e.g. existence of driver license for people under 16/18)

1/12 ☐ C Survey forms have conditional parts that are filled out only when a person answers a previous question in a certain way

10/12 ☒ D Data objects that are similar, but not duplicates, such as two distinct people with identical names.

1/12 ☐ E I do not know

11. What is the difference between a bar graph and histogram?

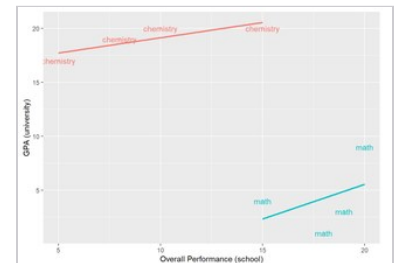
- 12/12 **A** Histograms are used to visualize the continuous data, while bar charts for comparing/analyzing the categorical data.
- 0/12 **B** Bar charts are used to visualize the continuous data, while histograms for comparing/analyzing the categorical data.
- 0/12 **C** Bar chart shows the distribution of variable, while histogram shows the proportion.
- 0/12 **D** I do not know

12. Which type of graph can be useful to make a decision about the outliers of the numeric variable?

- 12/12 **A** Boxplot
- 0/12 **B** Bar graph
- 0/12 **C** Pie chart
- 0/12 **D** I do not know

13. Choose the right answer

- 5/13 **A** There is a positive relationship between the overall performance of students at school and their GPA at the university
- 0/13 **B** There is a negative relationship between the overall performance of students who love chemistry at school and their GPA at the university
- 0/13 **C** There is a negative relationship between the overall performance of students who love math at school and their GPA at the university
- 7/13 **D** The positive relationship between the overall performance of students at school and their GPA at university is stronger for students who love math than for students who love chemistry
- 1/13 **E** I do not know



14. My opinion about the quiz...

 **Lilit Poghosyan**

1/12 | Very helpful tool to clarify weak pooints of knowledge. Thanks Lusine jan! :))

 **Mher**

1/12 | Perfect 😊

 **Gayane**

1/12 | Interesting

 **Smbat**

1/12 | Interesting (so far :))

 **Nare**

1/12 | Quiz is interesting ang challanging.

 **Mariam Martirosyan**

1/12 | I like the quiz. It doesn't take much time and checks whether I undertand the topic well. I would like to pass more quizzes like this.

 **Syuzi Gevorgyan**

1/12 | I think it's very useful not only for checking the level of understanding of the topic, but also for briefly summarizing and reinforcing new information.

 **Armine Danielyan**

1/12 | Good:)

 **Gor**

1/12 | Interesting!!

 **Diana Alaverdyan**

1/12 | Productive, instructive, useful

 **Hasmik**

1/12 | It is very interesting and motivating.

 **Elya**

1/12 | I definitely vote FOR it