

# DM-Spring-2020-Q1

69.23% (9/13)

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- ✓ 1. Which of these can be the way of creating a report using R?
- ☒ A R Markdown
  - ☐ B R script
  - ☐ C R project
  - ☐ D I do not know
- ✓ 2. Is it interesting to note the mode if the frequencies of all categories are the same?
- ☐ A Yes
  - ☒ B No
  - ☐ C I do not know
- ✓ 3. Min of x is 100% percentile for x
- ☐ A True
  - ☒ B False
  - ☐ C I do not know
- ✗ 4. Number of patients in a hospital is
- ☐ A A discrete, ratio variable
  - ☐ B A discrete, nominal variable
  - ☐ C A continuous, ordinal variable
  - ☒ D A discrete, interval variable
  - ☐ E I do not know

✗ 5. The temperature in Celsius is

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

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

- ☐ A binary
- ☐ B categorical
- ☒ C numeric
- ☐ D ordinal
- ☐ E I do not know

✗ 7. Discrete attributes means categorical attributes

- ☒ A True
- ☐ B False
- ☐ C I do not know

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

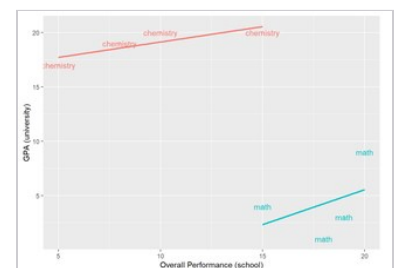
- ☒ A Mean
- ☐ B Trimmed mean
- ☐ C Median
- ☐ D Mode
- ☐ E I do not know

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

- ☐ A  $[-1,1]$
- ☐ B  $[-1,1)$
- ☐ C  $[0,1]$
- ☒ D Neither
- ☐ E I do not know

- ✓ 10. Which one is **not** the reason for having missing values?
- A During a survey some people decline to give information about their income level
  - B During a survey, questions are not applicable for some people (e.g. existence of driver license for people under 16/18)
  - C Survey forms have conditional parts that are filled out only when a person answers a previous question in a certain way
  - D Data objects that are similar, but not duplicates, such as two distinct people with identical names.
  - E I do not know
- ✓ 11. What is the difference between a bar graph and histogram?
- A Histograms are used to visualize the continuous data, while bar charts for comparing/analyzing the categorical data.
  - B Bar charts are used to visualize the continuous data, while histograms for comparing/analyzing the categorical data.
  - C Bar chart shows the distribution of variable, while histogram shows the proportion.
  - D I do not know
- ✓ 12. Which type of graph can be useful to make a decision about the outliers of the numeric variable?
- A Boxplot
  - B Bar graph
  - C Pie chart
  - D I do not know

- ✗ 13. Choose the right answer
- A There is a positive relationship between the overall performance of students at school and their GPA at the university
  - B There is a negative relationship between the overall performance of students who love chemistry at school and their GPA at the university
  - C There is a negative relationship between the overall performance of students who love math at school and their GPA at the university
  - 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
  - E I do not know



14. My opinion about the quiz...

Quiz is interesting and challenging.