



Free Questions for DA0-001  
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# Question 1

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Question Type: MultipleChoice

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An analyst needs to provide a chart to identify the composition between the categories of the survey response data set:

Favorite color	Responses
Red	15
Blue	35
Green	25
Yellow	25
Total	100

Which of the following charts would be BEST to use?

Options:

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- A- Histogram
- B- Pie
- C- Line
- D- Scatter pot
- E- Waterfall

Answer:

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B

Explanation:

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The best chart to use to identify the composition between the categories of the survey response data set is a pie chart. A pie chart is a circular chart that shows the relative proportions of different categories in a whole. A pie chart is divided into slices that represent the percentage or frequency of each category. A pie chart is suitable for displaying categorical data that has a few categories and does not have any hierarchical or temporal relationship. In this case, a pie chart can show the composition of the favorite colors among the survey respondents, as well as the percentage of each color. The other options are not as good as a pie chart for this purpose, as they are more suitable for displaying numerical data that has some kind of distribution, trend, correlation, or comparison. A histogram is a bar chart that shows the frequency distribution of a single numerical variable. A line chart is a chart that shows the change of one or more numerical

variables over time or another continuous variable. A scatter plot is a chart that shows the relationship between two numerical variables by plotting them as points on a Cartesian plane. A waterfall chart is a chart that shows how an initial value is increased or decreased by a series of intermediate values, resulting in a final value. Reference: [Choosing the Right Chart Type - DataCamp]

## Question 2

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Question Type: MultipleChoice

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An analyst reviews the following data:

7  
3  
5  
2  
3  
7  
7  
10

Which of the following is the value of the mode?

Options:

- A- 3
- B- 5
- C- 7
- D- 10

Answer:

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C

## Question 3

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Question Type: MultipleChoice

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An analyst is currently working on a ticket for revamping a company-wide dashboard that has been in use for five years. Which of the following should be the first step in the development process?

### Options:

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- A- Talk to the group that made the request to determine the desired goal.
- B- Make changes to a frequently used report that is already in production.
- C- Build an additional dashboard with fewer views that are tailored toward each specific team.
- D- Develop a more streamMined dashboard to roll out by the next delivery date.

### Answer:

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A

### Explanation:

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The first step in the development process of revamping a company-wide dashboard should be to talk to the group that made the request to determine the desired goal. This would help to understand the needs, expectations, and preferences of the stakeholders, as well as the scope, purpose, and objectives of the project. Talking to the group that made the request would also help to establish a clear communication channel, build rapport and trust, and solicit feedback and suggestions.

## Question 4

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Question Type: MultipleChoice

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A customer survey reveals 90% positive feedback. Which of the following statistical methods would be best to utilize to determine the reliability of a data set and predict how a larger sample of customers over the same time period might respond?

### Options:

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- A- Calculate a high variance on survey responses.

- B- Calculate the maximum range of the survey responses.
- C- Calculate a low standard deviation on survey responses.
- D- Remove any data more than 4 standard deviation from the mean.

Answer:

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C

## Question 5

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Question Type: MultipleChoice

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Which one of the following values will appear first if they are sorted in descending order?

Options:

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- A- Aaron.
- B- Molly.
- C- Xavier.
- D- Adam.

Answer:

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C

Explanation:

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The value that will appear first if they are sorted in descending order is Xavier. Descending order means arranging values from the largest to the smallest, or from the last to the first in alphabetical order. In this case, Xavier is the last name in alphabetical order, so it will appear first when sorted in descending order. The other names will appear in the following order: Molly, Adam, Aaron. Reference:Sorting Data - W3Schools

## Question 6

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Question Type: MultipleChoice

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A marketing analytics team received customer transaction data from two different sources. The data is complete and accurate; however, the field names appear to be inconsistent. Given the following tables:

Online transactions:

Customer_ID	Channel	Segment	Amount (\$)
001	Online	Existing	3,000
002	Online	Existing	4,000
003	Online	New	1,500

Store transactions:

Customer_ID	Source	Segment	Amount (\$)
001	In-store	New	1,000
004	In-store	Existing	4,000
005	In-store	New	3,500

Which of the following is considered best practice if the team wants to consolidate the files and conduct further analysis?

Options:

- A- Standardize the field names.
- B- Recode the data values.
- C- Overwrite the field names in one of the tables.
- D- Edit the field names in the data dictionary.

Answer:

A

## Question 7

Question Type: MultipleChoice

After completing web scraping, which of the following file formats needs to be parsed?

Options:

- A- .html
- B- .txt
- C- .csv
- D- .tsv

Answer:

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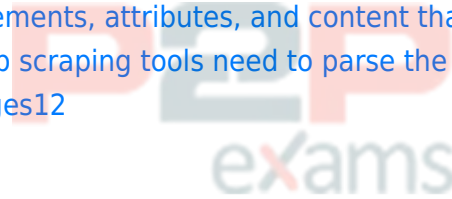
A

Explanation:

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The correct answer is .html.

Short explanation: Web scraping is the process of extracting data from websites by parsing the HTML code of the web pages. HTML stands for HyperText Markup Language and it is the standard markup language for creating web pages and web applications. HTML files have the extension .html and they contain tags, elements, attributes, and content that define the structure and appearance of a web page. Web scraping tools need to parse the HTML files to extract the relevant data from the web pages<sup>12</sup>



## Question 8

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Question Type: MultipleChoice

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Which of the following would a data analyst look for first if 100% participation is needed on survey results?

Options:

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- A- Missing data
- B- Invalid data
- C- Redundant data
- D- Duplicate data



Answer:

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A

Explanation:

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Missing data is a type of data quality issue that occurs when some values in a data set are not recorded or available. Missing data can affect the validity and reliability of survey results, especially if the missing values are not random or ignorable. Missing data can also reduce the sample size and the statistical power of the analysis<sup>12</sup>

If 100% participation is needed on survey results, a data analyst would look for missing data first,

because missing data would indicate that some participants did not complete or submit the survey, or that some responses were not recorded or transmitted correctly. A data analyst would need to identify the causes and patterns of missing data, and apply appropriate methods to handle or prevent missing data, such as imputation, deletion, weighting, or follow-up<sup>12</sup>

## Question 9

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Question Type: MultipleChoice

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Which of the following best describes a difference between JSON and XML?

Options:

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- A- JSON is quicker to read and write.
- B- JSON has to use an end tag.
- C- JSON strings are longer
- D- JSON is much more difficult to parse.

Answer:

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A

Explanation:

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The best answer is

A) JSON is quicker to read and write.

JSON (JavaScript Object Notation) is a lightweight data-interchange format that is based on the JavaScript programming language and easy to understand and generate. JSON uses a simple syntax that consists of name-value pairs and arrays, and does not require any end tags or attributes. JSON is quicker to read and write than XML (Extensible Markup Language), which is a markup language that uses a tag structure to represent data items. XML has a more complex and verbose syntax that requires end tags, attributes, and namespaces<sup>123</sup>

## Question 10

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Question Type: MultipleChoice

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A data analyst has been asked to create a daily manufacturing report for the floor manager  
Which of the following metrics should be included in the report?

Options:

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- A- Tons of steel produced per hour
- B- Annual sales budget
- C- End-of-day stock price
- D- Daily corporate employee count

Answer:

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A

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