Middle School Data Science Basics

Data Science · Answer Key · 10 Questions

1. What type of data is represented by categories or labels, such as eye color or favorite sport?

A) Categorical data
B) Numerical data
C) Continuous data
D) Binary data

2. Which graph uses rectangular bars to compare quantities across different discrete categories?

A) Line graph
B) Scatter plot
C) Bar chart
D) Box plot

3. In statistics, what is the term for the average value obtained by adding all numbers in a dataset and dividing by the total count?

A) Median
B) Mode
C) Mean
D) Range

4. What system of data representation uses only two digits, 0 and 1, to store information in computers?

A) Decimal system
B) Hexadecimal system
C) Binary system
D) Roman system

5. What is the process of identifying and removing corrupt, inaccurate, or duplicate records from a dataset called?

A) Data cleaning
B) Data encryption
C) Data compression
D) Data transmission

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6. Which chart displays individual data points on a two-dimensional grid to show the relationship between two numerical variables?

A) Pie chart
B) Scatter plot
C) Histogram
D) Venn diagram

7. What statistical measure identifies the value that appears most frequently in a dataset?

A) Mean
B) Median
C) Mode
D) Standard deviation

8. What term refers to data that describes or gives information about other data, such as a file's creation date?

A) Metadata
B) Big Data
C) Raw data
D) Pseudodata

9. How many bits make up one byte in computer data storage?

A) 4 bits
B) 8 bits
C) 16 bits
D) 32 bits

10. Which type of chart is divided into proportional slices to show how parts contribute to a whole?

A) Scatter plot
B) Line graph
C) Pie chart
D) Histogram

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