- 1. What type of data visualisation is a histogram?a. Scatter plotb. Line chart
  - c. Bar chart
  - d Farmona and distributi
  - d. Frequency distribution
- 2. In a histogram, what is represented on the x-axis?
  - a. Categories
  - b. Frequency
  - c. Percentage
  - d. Range of values
- 3. What is the primary purpose of a histogram?
  - a. Showing proportions
  - b. Displaying trends over time
  - c. Representing categorical data
  - d. Presenting the distribution of numerical data
- 4. How is the number of bins determined in a histogram?
  - a. Subjective choice
  - b. Fixed formula
  - c. Data range
  - d. All of the above
- 5. In a bar chart, what is represented by the length of the bars?
  - a. Frequency
  - b. Percentage
  - c. Range
  - d. Standard deviation
- 6. Which type of data is best represented by a bar chart?
  - a. Numerical
  - b. Categorical
  - c. Time series
  - d. Geospatial
- 7. What is the main difference between a histogram and a bar chart?
  - a. The type of data they represent
  - b. The presence of gaps between bars
  - c. The orientation of the bars
  - d. The number of bars
- 8. What does each slice in a pie chart represent?
  - a. Frequency
  - b. Percentage
  - c. Range
  - d. Standard deviation

<ul> <li>10. What type of data is commonly visualised using a heatmap? <ul> <li>a. Categorical</li> <li>b. Numerical</li> <li>c. Time series</li> <li>d. Geospatial</li> </ul> </li> <li>11. In a heatmap, what do the colours represent? <ul> <li>a. Frequency</li> <li>b. Intensity or value</li> <li>c. Range</li> <li>d. Standard deviation</li> </ul> </li> <li>12. What is a violin plot used for? <ul> <li>a. Displaying distribution of numerical data</li> <li>b. Comparing categorical data</li> <li>c. Showing geospatial trends</li> <li>d. Representing time series data</li> </ul> </li> <li>13. What does the width of the "violin" in a violin plot indicate? <ul> <li>a. Range of values</li> <li>b. Frequency</li> <li>c. Density of data points</li> <li>d. Skewness</li> </ul> </li> </ul>	<ul><li>9. When is it appropriate to use a pie chart?</li><li>a. Showing trends over time</li><li>b. Comparing individual data points</li><li>c. Representing parts of a whole</li><li>d. Displaying geospatial data</li></ul>
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	a. Range of values b. Frequency c. Density of data points

14. In a skewed right distribution, where is the tail of the data located?

16. In a perfectly symmetrical distribution, what is the skewness value?

15. What does a negative skewness value indicate?

a. Left sideb. Right sidec. Center

d. Both sides equally

c. Symmetric distribution

d. Cannot be determined

a. Skewed leftb. Skewed right

d. No skewness

a. 0b. 1c. -1

- 17. What type of data is best visualised using a dot plot? a. Numerical b. Categorical
  - c. Time series
  - d. Geospatial
- 18. How are individual data points represented in a dot plot?
  - a. Bars
  - b. Dots
  - c. Lines
  - d. Areas
- 19. What is the main purpose of a stem-and-leaf plot?
  - a. Displaying distribution of numerical data
  - b. Comparing categorical data
  - c. Showing geospatial trends
  - d. Representing time series data
- 20. In a stem-and-leaf plot, what does the stem represent?
  - a. Individual data points
  - b. Ranges of values
  - c. Frequency
  - d. Skewness
- 21. In a left-skewed distribution, where is the tail of the data located?
  - a. Left side
  - b. Right side
  - c. Center
  - d. Equally distributed on both sides
- 22. What does a positive skewness value indicate?
  - a. Skewed left
  - b. Skewed right
  - c. Symmetric distribution
  - d. No skewness
- 23. When is a pie chart considered misleading?
  - a. When there are too many categories
  - b. When the data is evenly distributed
  - c. When it represents a small dataset
  - d. When comparing individual data points
- 24. What is the primary purpose of a histogram?
  - a. Displaying the distribution of numerical data
  - b. Comparing individual data points
  - c. Representing trends over time
  - d. Comparing categories

- 25. In a right-skewed distribution, where is the majority of the data located?
  - a. Left side
  - b. Right side
  - c. Center
  - d. Equally distributed on both sides
- 26. What is the main drawback of using a pie chart?
  - a. Limited to categorical data
  - b. Difficult to interpret
  - c. Cannot represent percentages
  - d. Not suitable for small datasets
- 27. Which of the following is a characteristic of a left-skewed distribution?
  - a. Median > Mean
  - b. Median < Mean
  - c. Median = Mean
  - d. Median is not affected by skewness
- 28. In a histogram, what is typically shown on the y-axis?
  - a. Categories
  - b. Frequency
  - c. Percentage
  - d. Range of values
- 29. When is it appropriate to use a pie chart?
  - a. Showing proportions
  - b. Comparing individual data points
  - c. Representing trends over time
  - d. Displaying geospatial data
- 30. What type of data is best represented by a bar chart?
  - a. Numerical
  - b. Categorical
  - c. Time series
  - d. Geospatial