- 1. What type of data visualisation is a histogram?a. Scatter plotb. Line chartc. Bar chart
 - 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

a. Categoricalb. Numericalc. Time seriesd. Geospatial
11. In a heatmap, what do the colours represent?a. Frequencyb. Intensity or valuec. Ranged. Standard deviation
 12. What is a violin plot used for? a. Displaying distribution of numerical data b. Comparing categorical data c. Showing geospatial trends d. Representing time series data
13. What does the width of the "violin" in a violin plot indicate?a. Range of valuesb. Frequencyc. Density of data pointsd. Skewness
14. In a skewed right distribution, where is the tail of the data located?a. Left sideb. Right sidec. Centerd. Both sides equally
15. What does a negative skewness value indicate?a. Skewed leftb. Skewed rightc. Symmetric distributiond. No skewness
 16. In a perfectly symmetrical distribution, what is the skewness value? a. 0 b. 1 c1 d. Cannot be determined

9. When is it appropriate to use a pie chart?

10. What type of data is commonly visualised using a heatmap?

b. Comparing individual data pointsc. Representing parts of a wholed. Displaying geospatial data

a. Showing trends over time

- 17. What type of data is best visualised using a dot plot?a. Numericalb. Categoricalc. 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

Certainly! Here are questions 21 to 40:

- 21. 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
- 22. What is the primary disadvantage of using a bar chart?
 - a. Difficulty in comparing individual data points
 - b. Limited to categorical data
 - c. Inability to show trends over time
 - d. Not suitable for large datasets
- 23. When should a histogram be preferred over a bar chart?
 - a. When comparing individual data points
 - b. When showing proportions
 - c. When representing parts of a whole
 - d. When displaying the distribution of numerical data
- 24. What type of data is typically suitable for a pie chart?
 - a. Numerical
 - b. Categorical
 - c. Time series

- d. Geospatial
- 25. In a right-skewed distribution, where is the tail of the data located?
 - a. Left side
 - b. Right side
 - c. Center
 - d. Equally distributed on both sides
- 26. What does a negative skewness value indicate?
 - a. Skewed left
 - b. Skewed right
 - c. Symmetric distribution
 - d. No skewness
- 27. When is a bar chart more appropriate than a histogram?
 - a. When comparing individual data points
 - b. When showing proportions
 - c. When representing parts of a whole
 - d. When displaying the distribution of numerical data
- 28. What is the primary purpose of a pie chart?
 - a. Comparing individual data points
 - **b**. Showing proportions
 - c. Representing trends over time
 - d. Comparing categories
- 29. What is the key difference between a bar chart and a histogram?
 - a. The type of data they represent
 - b. The presence of gaps between bars
 - c. The orientation of the bars
 - d. The number of categories
- 30. 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
- 31. What does a positive skewness value indicate?
 - a. Skewed left
 - **b.** Skewed right
 - c. Symmetric distribution
 - d. No skewness
- 32. 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
- 33. 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
- 34. 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
- 35. 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
- 36. 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
- 37. In a histogram, what is typically shown on the y-axis?
 - a. Categories
 - b. Frequency
 - c. Percentage
 - d. Range of values
- 38. 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
- 39. What is the primary purpose of a histogram?
 - a. Comparing categories
 - b. Showing proportions
 - c. Representing parts of a whole
 - d. Displaying the distribution of numerical data
- 40. What type of data is best represented by a bar chart?
 - a. Numerical
 - b. Categorical
 - c. Time series

d. Geospatial