- 1. What type of data visualisation is a histogram?
 - a. Scatter plot
 - b. Line chart
 - c. 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

- 9. When is it appropriate to use a pie chart?
 - a. Showing trends over time
 - b. Comparing individual data points

c. Representing parts of a whole

- d. Displaying geospatial data
- 10. What type of data is commonly visualised using a heatmap?
 - a. Categorical

b. Numerical

- c. Time series
- d. Geospatial
- 11. In a heatmap, what do the colours represent?
 - a. Frequency

b. Intensity or value

- c. Range
- d. 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 values
 - b. Frequency

c. Density of data points

- d. Skewness
- 14. In a skewed right distribution, where is the tail of the data located?
 - a. Left side

b. Right side

- c. Center
- d. Both sides equally
- 15. What does a negative skewness value indicate?

a. Skewed left

- b. Skewed right
- c. Symmetric distribution
- d. No skewness
- 16. In a perfectly symmetrical distribution, what is the skewness value?
 - a. 0
 - b. 1
 - c. -1
 - d. Cannot be determined

- 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

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