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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

redundant Q14

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.**

Redundant Q7

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.

Redundant Q3

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.

Redundant Q21

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.

Redundant Q3

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