CBSE Board

Class 9 | English

CHAPTER-12 | Statistics

QUIZ-01

Under CSR Support by
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missiongyan

1. **What type of data is best represented using a bar graph?**
   A. Continuous data
   B. Categorical data
   C. Grouped data
   D. Frequency data   (B)

   Explanation : Bar graphs are best suited for representing categorical or discrete data with distinct categories.

2. **What is the class mark of the interval 140 - 150?**
   A. 140
   B. 145
   C. 150
   D. 155   (B)

   Explanation : Class mark = (Upper limit + Lower limit) / 2 = (150 + 140) / 2 = 145.

3. **In a histogram, the area of each rectangle is proportional to :**
   A. Height
   B. Width
   C. Class interval
   D. Frequency   (D)

   Explanation : In histograms, the area of each rectangle represents the frequency of the corresponding class.

4. **Which graphical tool is suitable for comparing two sets of similar data?**
   A. Bar graph
   B. Histogram
   C. Frequency Polygon
   D. Line graph   (C)

   Explanation : Frequency polygons help compare multiple datasets on the same graph using class marks.

5. **What modification is done in histograms with unequal class widths?**
   A. Change class intervals
   B. Use bar graph
   C. Adjust rectangle heights
   D. Use pie chart   (C)

   Explanation : Heights are adjusted to maintain area proportionality with frequency when class widths vary.

6. **Which of the following graphs does not have gaps between bars?**
   A. Bar graph
   B. Line graph
   C. Histogram
   D. Pie chart   (C)

   Explanation : Histograms are used for continuous data and do not have gaps between bars.

7. **What is shown on the x-axis in a bar graph representing monthly expenses?**
   A. Expenses
   B. Months
   C. Frequency
   D. Values   (B)

   Explanation : The variable 'month' is plotted on the x-axis, while expenses are on the y-axis.

8. **Which of these is essential to construct a frequency polygon without a histogram?**
   A. Frequencies
   B. Class width
   C. Class marks
   D. Cumulative frequency   (C)

   Explanation : To draw a frequency polygon without histogram, class marks are required.

9. **In a frequency polygon, which point is used before the first class?**
   A. Class width
   B. Zero frequency midpoint
   C. Cumulative frequency
   D. Class interval   (B)

   Explanation : A zero frequency class before the first interval is assumed, and its midpoint is used to start the polygon.

10. **Which of the following is not a graphical representation discussed in the chapter?**
    A. Bar Graph
    B. Histogram
    C. Frequency Polygon
    D. Pie Chart   (D)

    Explanation : Pie chart is not covered in this chapter; only bar graph, histogram, and frequency polygon are discussed.