

CHAPTER-12 | : Statistics

QUIZ PART-6

1. A histogram is used to represent:

- A. Discrete data
- B. Continuous data
- C. Categorical data
- D. Mode and median (B)

Explanation: Histograms represent continuous data by grouping it into intervals.

2. In the data for children playing in the park, the age group with the highest number of children is:

- A. 5-7 years
- B. 7-10 years
- C. 10-15 years
- D. 3-5 years (A)

Explanation: The 5-7 years age group has the highest frequency of 12 children.

3. To construct a histogram, the width of the rectangle represents:

- A. Frequency
- B. Class interval
- C. Data points
- D. Mean (B)

Explanation: The width of the rectangle represents the class intervals in the histogram.

4. The frequency of the class interval 4-6 in the surname data is:

- A. 6
- B. 30
- C. 44
- D. 16 (B)

Explanation: The frequency for the class 4-6 is 30 surnames.

5. The total number of surnames in the surname data for the class 6-8 letters is:

- A. 30
- B. 6
- C. 44
- D. 16 (C)

Explanation: The frequency for 6-8 letters is 44 surnames.

6. The width of the bar for the class interval 6-8 in the surname histogram is:

- A. 3
- B. 2
- C. 1
- D. 4 (B)

Explanation: The width of the bar for the 6-8 interval is 2 as mentioned in the solution.

7. The most frequent class interval for surnames based on letter count is:

- A. 1-4
- B. 4-6
- C. 6-8
- D. 8-12 (C)

Explanation: The 6-8 class interval has the highest frequency of 44 surnames.

8. In the park data, the age group with 4 children is:

- A. 1-2 years
- B. 15-17 years
- C. 2-3 years
- D. 3-5 years (B)

Explanation: The age group 15-17 years has a frequency of 4 children.

9. The class interval for the surname data with the lowest frequency is:

- A. 1-4
- B. 4-6
- C. 12-20
- D. 8-12 (C)

Explanation: The class interval 12-20 has the lowest frequency, with only 4 surnames.

10. In a histogram, the number of children is represented on the:

- A. X-axis
- B. Y-axis
- C. Both
- D. None (B)

Explanation: The Y-axis represents the number of children or frequency in a histogram.