Histograms

bar.

Frequencies are 10, 20, 15.

A.	Choose the correct answer:	
	1. In a histogram, the bars are drawn	
	a) Separately with gaps	b) Touching each other
	c) Overlapping each other	d) Far apart
	2. The area of each rectangle in a histogram is proportional to	
	a) Class width	b) Frequency
	c) Midpoint	d) Upper limit
	3. In a histogram, the x-axis represents	
	a) Frequency	b) Class intervals
	c) Data points	d) Mean
	4. A histogram is used to represent	
	a) Discrete data	b) Continuous data
	c) Qualitative data	d) None of these
	5. The y-axis of a histogram represents	
	a) Class intervals	b) Midpoints
	c) Frequency	d) Class width
В.	Write the Missing Terms to Complete the Sentences:	
	1. In a histogram, bars are u	sed without any gap between them.
	2. The width of each bar in a histogra	am represents the of the class interval.
	3. The height of a bar in a histogram	represents the of the class.
	. A histogram is appropriate for type of data.	
	5.In a histogram, the bars are drawn	
	and the square and an analysis of the	
C.	Figure out the answers to these questions:	
	1. Draw a histogram for the following 40 and Frequencies 5, 8, 12, 6.	ng data Class intervals 0-10, 10-20, 20-30, 30-
	2. Why are there no gaps between t	he bars in a histogram?
	,	n is drawn with unequal gaps between bars.
	4. If the frequency of the class 20-30) is 15, what is the height of the corresponding

5. Construct a histogram for data where Class intervals are 5-15, 15-25, 25-35, and

D. Mark each sentence with a True (✔) or False (X): 1. In a histogram, the bars must touch each other 2. Histograms are suitable for discrete data representation 3. Frequency is represented on the x-axis in a histogram 4. The width of all bars must be the same if the class size is uniform 5. Histograms can be used for categorical data

- E. Challenge yourself with these questions:
 - 1. List two main differences between a bar graph and a histogram.
 - 2. What will happen if a histogram is drawn with non-uniform class intervals?
 - 3. Why is it important to mention the scale while constructing a histogram?
 - 4. If the range of the data is 50 and you need 5 classes, what will be the class width.
 - 5. In a histogram, if the frequency doubles, what happens to the height of the corresponding bar?