Multiple choice questions - Charts, averages and cumulative frequency

Year: Year 11 · 10

Question 1 The median of 3, 5, 8, 10, 14 is

- ◯ **A.** 8
- ◯ **B.** 10
- ◯ **C.** 8.0 or 10
- ◯ **D.** 40

Question 2 The mean of 2, 4, 6, 8 is

- ◯ **A.** 4
- ◯ **B.** 5
- ◯ **C.** 6
- ◯ **D.** 20

Question 3 The mode is

- ◯ **A.** the middle value
- ◯ **B.** the most common value
- ◯ **C.** the biggest minus smallest
- ◯ **D.** the total

Question 4 To estimate the mean of grouped data you use

- ◯ **A.** class width
- ◯ **B.** class midpoint
- ◯ **C.** lower boundary
- ◯ **D.** upper boundary

Question 5 A pie chart sector for 18 out of 90 has an angle of

- ◯ **A.** 18
- ◯ **B.** 36
- ◯ **C.** 72
- ◯ **D.** 90

Question 6 (Higher) Frequency density equals

- ◯ **A.** frequency x width
- ◯ **B.** frequency / width
- ◯ **C.** width / frequency

- ◯ **D.** frequency + width

Question 7 (Higher) A cumulative frequency graph is plotted against the

- ◯ **A.** class midpoint
- ◯ **B.** lower boundary
- ◯ **C.** upper boundary
- ◯ **D.** frequency

Question 8 (Higher) The lower quartile of n values is at

- ◯ **A.** n/2
- ◯ **B.** n/4
- ◯ **C.** 3n/4
- ◯ **D.** n

Question 9 (Higher) Q1 = 20 and Q3 = 35. The IQR is

- ◯ **A.** 55
- ◯ **B.** 15
- ◯ **C.** 27.5
- ◯ **D.** 20

Question 10 The range of 4, 7, 7, 9, 12, 15, 16 is

- ◯ **A.** 7
- ◯ **B.** 12
- ◯ **C.** 10
- ◯ **D.** 9

Answer grid - Charts, averages and cumulative frequency

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Question	Answer	Explanation
1	**A**	Middle value.
2	**B**	20/4.
3	**B**	Most common.
4	**B**	Midpoint.
5	**C**	18/90 x 360.
6	**B**	Height of the bar.
7	**C**	Upper class boundary.
8	**B**	Quarter.
9	**B**	35-20.
10	**B**	16-4.