Multiple choice questions - Statistics: scatter graphs and averages

Year: Year 8 · 10

Question 1 The mean of 2, 4, 6, 8 is

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

Question 2 The median of 7, 1, 5 is

- ◯ **A.** 1
- ◯ **B.** 5
- ◯ **C.** 7
- ◯ **D.** 4.3

Question 3 The mode of 2, 3, 3, 4, 3, 5 is

- ◯ **A.** 2
- ◯ **B.** 3
- ◯ **C.** 4
- ◯ **D.** 5

Question 4 The range of 6, 12, 3, 9 is

- ◯ **A.** 3
- ◯ **B.** 6
- ◯ **C.** 9
- ◯ **D.** 12

Question 5 A scatter graph shows points sloping down from left to right. This is

- ◯ **A.** positive
- ◯ **B.** negative
- ◯ **C.** none
- ◯ **D.** zero

Question 6 The angle for 12 pupils out of 36 in a pie chart is

- ◯ **A.** 60°
- ◯ **B.** 90°
- ◯ **C.** 120°

- ◯ **D.** 12°

Question 7 The median of 4, 6, 8, 10 is

- ◯ **A.** 6
- ◯ **B.** 7
- ◯ **C.** 8
- ◯ **D.** 7.5

Question 8 Which average is best with one extreme outlier?

- ◯ **A.** Mean
- ◯ **B.** Median
- ◯ **C.** Range
- ◯ **D.** Total

Question 9 The midpoint of the class 10-20 is

- ◯ **A.** 5
- ◯ **B.** 10
- ◯ **C.** 15
- ◯ **D.** 20

Question 10 A line of best fit should

- ◯ **A.** go through every point
- ◯ **B.** go through the middle of the points
- ◯ **C.** be a curve
- ◯ **D.** always pass through the origin

Answer grid - Statistics: scatter graphs and averages

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Question	Answer	Explanation
1	**B**	$\frac{20}{4}$.
2	**B**	Order: 1, 5, 7.
3	**B**	3 appears most.
4	**C**	$12 - 3$.
5	**B**	Negative correlation.
6	**C**	$\frac{12}{36} \times 360$.
7	**B**	$\frac{6+8}{2}$.
8	**B**	The median is not affected.
9	**C**	The middle.
10	**B**	Roughly equal points on each side.