



INDIAN SCHOOL AL WADI AL KABIR

Department: Mathematics

Class IX

Worksheet – STATISTICS (MCQ)

Questions of 1 Mark each.

1.	The class mark of the class 300–320 is _____.							
	A	300	B	310	C	315	D	320
2.	The range of the data 12, 25, 15, 18, 17, 20, 22, 6, 16, 11, 8, 19, 10, 30, 20, 32 is:							
	A	10	B	15	C	18	D	26
3.	The mid-value of a class interval is 22 and the class size is 8. The lower and upper limits are _____.							
	A	18.5–26.5	B	19–27	C	18–26	D	17–25
4.	In the class intervals 50–70, 70–90, the number 70 is included in _____.							
	A	70-90	B	50-70	C	in each of 50–70 and 70–90	D	in none of 50–70 and 70–90
5.	Let 12 be the midpoint and 18 be the upper class limit of a class in a continuous frequency distribution. The lower class limit of the class is:							
	A	11	B	9	C	10	D	6
6.	The class size of the class 100–120 is:							
	A	10	B	20	C	15	D	5
7.	The adjusted frequency of the class interval 300–500 is 20. If the minimum class size is 50, then the initial frequency of this class interval was _____. (CBQ)							
	A	20	B	100	C	80	D	50
8.	A grouped frequency distribution table with class intervals of equal sizes using 150-200 as one of the class intervals is constructed for following data: 380, 405, 378, 410, 170, 290, 370, 175, 318, 241, 275, 315, 305, 375, 288, 325, 402, 355, 261, 380, 253, 178, 428, 240, 154, 175, 210, 405, 425, 440, 306, 328, 370, 460, 380. The frequency of the class 350-400 is _____.							
	A	8	B	5	C	6	D	7

9.	To draw a histogram to represent the following frequency distribution: the adjusted frequency for the class interval 35-55 is:											
	C.I		15-20		20-25		25-35		35-55		55-85	
	f		6		12		10		8		15	
	A	3		B	6		C	5		D	2	
10.	When drawing the frequency polygon of the below continuous frequency distribution, the point plotted for the class interval 50-60 is:											
	C.I		30-40		40-50		50-60		60-70		70-80	
	f		3		6		25		65		50	
	A	(85,25)		B	(55,25)		C	(25,55)		D	(25,45)	
ASSERTION AND REASONING												
DIRECTION: In the question number 11 and 12, a statement of assertion (A) is followed by statement of Reason (R). Choose the correct option: (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A). (c) Assertion (A) is true but reason (R) is false. (d) Assertion (A) is false but reason (R) is true.												
11.	Assertion: In a histogram the area of each rectangle is proportional to frequency of the corresponding class interval Reason: To draw the histogram of a continuous frequency distribution with unequal class intervals, the frequencies of classes are adjusted by using the formula: $\text{Adjusted frequency} = \frac{\text{frequency}}{\text{actual class size}} \times \text{Minimum class size}$											
12.	Assertion: In the class intervals 5-10, 10-15, 10 is included in the interval 5-10. Reason: The lower limit of the class interval is always included in the interval.											
	Answers											
Answers	1	B	2	D	3	C	4	A				
	5	D	6	B	7	C	8	A				
	9	D	10	B	11	b)	12	d)				