

INDIAN SCHOOL AL WADI AL KABIR

Dept. of Mathematics 2021 – 2022 Class XI – Revision Work Sheet (WS_5) Statistics



2	Percentile rank refers to (a) the percentage of scores that fall above a certain score (b) the percentage of scores that fall at or above a certain score (c) the percentage of scores that fall at or below a certain score (d) the percentage of scores that equal a certain score.						
_	The score of a MCQ test of 10 students are given below: 37,48,35,49,29,46, 49, 40,33, 50. The percentile rank of score 49 is						
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	(a)75	(b)80	(c)85	(d)90			
3	The coefficient of co (a) change of scale b (b) change of origin	out not of origin	(c) change of origin and scale both				
4	Which of the follow	ing is true for coeffi	icient of correlation r?				
	(a) $r > 1$	(b) $r \le -1$		$(d) -1 \le r \le 1$			
5	The coefficient of correlation is (a) greater than the coefficient of determination (b) the square of the coefficient of determination (c) the square root of the coefficient of determination (d) equal to the coefficient of determination						
6	If $\Sigma u_i v_i = 50$ and $n = 15$ where u_i and v_i are deviations of X and Y series from their respective mean, then $Cov(X, Y)$ is						
	(a) 2.43	(b)3.33	(c)3.24	(d)3.63			
7	and var(X) is 16, the	fficient of correlation between two variables X and Y is 0.25, their covariance is 25 ar(X) is 16, then standard deviation of Y- series is					
	(a)25	(b)2.5	(c)0.25	(d)0.0025			
8	The standard deviation of first 10 natural numbers is						
U	(a) 5.5	(b) 3.87	(c) 2.97	(d) 2.87			
9	The mean deviation of the numbers 3, 4, 5, 6, 7 from the mean is						
	(a) 25	(b) 5	(c) 1.2	(d) 0			
				. ,			

10	A batsman scores runs in '10 innings as 38, 70, 48, 34, 42, 55, 63, 46, 54 and 44. The mean deviation about mean is							
	(a) 8.6	(b) 6.4	(c) 10.6	(d) 7.6				
11	Consider the first 10 positive integers. If we multiply each number by -1 and then add 1 to each number, the variance of the numbers so obtained is							
	(a) 8.25	(b) 6.5	(c) 3.87	(d) 2.87				
12	Consider the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. If '1 is added to each number, the variance of the numbers so obtained is							
	(a) 6.5	(b) 2.87	(c) 3.87	(d) 8.25				
13	The mean of 100 observations is 50 and their standard deviation is 5. The sum of all squares of all the observations is							
	(a) 50,000	(b) 250,000	(c) 252500	(d) 255000				
14	The mean deviation (a) 2	of the data 3, '10, '10 (b) 2.57), 4, 7, '10, 5 from the (c) 3	e mean is (d) 3.57				
	. ,		. ,	,				
15	The standard deviat	ion of the observatior						
	(a) 6	(b) √6	(c) $\frac{52}{7}$	$(d)\sqrt{\frac{52}{7}}$				
16		of the data 2, 9, 9, 3,						
	(a) 2.23	(b) 2.57	(c) 3.23	(d) 3.57				
17	Variance of the data (a) 23.33	a 2, 4, 5, 6, 8, '17 is 23 (b) 25.33	3.33. The variance of (c) 46.66	4, 8, '10, '12, '16, 34 will be (d) 93.32				
18	When tested, the lives (in hours) of 5 bulbs were noted as follows: 1357, 1090, 1666, 1494, 1623. The mean deviations (in hours) from their mean is							
	(a) 178	(b) 179	(c) 220	(d) 356				
19	The following are the marks obtained by 9 students in Mathematics test: 50, 69, 20, 33, 53, 39, 40, 65, 59. The mean deviation from the median is							
	(a) 9	(b) 10.5	(c) 12.67	(d) 14.67				
20	Calculate Karl Pearson's coefficient of skewness for the distribution for which mean = 100, mode = 126 and σ = 30							
	(a) 0.78	(b) - 0.78	(c) 0.87	(d) - 0.87				

Answers									
1(c)	2(b)	3(c)	4(d)	5(c)	6(b)	7(a)	8(d)	9(c)	10(a)
11(b)	12(c)	13(a)	14(b)	15(d)	16(b)	17(d)	18(b)	19(c)	20(d)