



INDIAN SCHOOL AL WADI AL KABIR

Department: Mathematics

Class XI Bridge Course WS-3

Roll No. Name:

Class & Section:

Date:

Q No.	Question						
1.	Find mean: 12, 15, 14, 10, 11, 15, 12, 7.						
2.	Find median: 23, 25, 27, 12, 15, 19, 26, 24, 13, 23, 24, 28.						
3.	Prepare a grouped frequency distribution with class interval 5. 62, 40, 62, 56, 40, 64, 54, 42, 42, 41, 54, 48, 45, 48, 53, 46, 66, 52, 55, 40, 57, 50, 67, 56, 57.						
4.	Find mean:						
	X	3	5	7	9	11	
	f	2	5	8	6	4	
5.	Find mean:						
	Class	100-120	120-140	140-160	160-180	180-200	Total
	f	12	15	18	20	14	90

6.	If $\sin A = \frac{12}{13}$, find the values of all other trigonometric ratios.				
7.	Write the values of trigonometric ratios:				
		0°	30°	45°	60°
	Sin				
	Cos				
	Tan				
	Cosec				
	Sec				
	cot				
8.	If $\sin(A+B) = 1$ and $\sin(A-B) = \frac{1}{2}$, then find the measures of A and B, where A and B are acute angles.				
9.	Simplify: a) $(\sin A + \cos A)^2 + (\sin A - \cos A)^2$		b) $\frac{\sin A - \cos A}{\sin A + \cos A} + \frac{\sin A + \cos A}{\sin A - \cos A}$		
	c) $\frac{\tan 45^\circ + 2\sec 60^\circ + \sin 30^\circ}{\tan^2 30^\circ}$		d) $(\sec A + \cos A)^2 + (\csc A + \sin A)^2$		