

## INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2023-24)

## Worksheet DTQ – DATA HANDLING

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)								
Q1.	The number of points that Town Rugby Club scored in eight matches is 24, 17, 19, 35, 9,							
	43, 15, 30. Work out the range of the number of points scored.							
Q2.	Find the mean of the first 3 multiples of 5.							
Q3.	Sumi recorded the heights (in cm) of members of her extended family, to the nearest cm.							
	Find the height of the tallest and the shortest member of her family.							
	163, 185, 164, 170, 187, 150, 168, 179, 163, 185, 164, 170, 188, 154, 168.							
Q4.	Jackson records the following data of people who go swimming on a particular Saturday							
	morning: 5, 12, 24, 13, 64, 38, 71, 13, 14, 41, 13. Calculate the mode of the data.							
Q5.	Find the median of odd numbers between 12 and 26.							
Q6.	Find the mean of the first five whole numbers.							
Q7.	The number of service upgrades sold by each of the 11 employees is as follows: 32, 6, 21,							
	10, 8, 11, 12, 36, 17, 18, and 24 What is the median number of service upgrades sold by							
	the 11 employees							
SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)								
<b>Q8.</b>	Y Title : Survey Result Yes No							
	30 ↑ Scale: 1 unit = 5 votes							
	25							
	월 <b>20</b>							
	2 15 D							
	9 10 ×							
	5							
	O Chicken burger Veg Pizza French Fries Tomato Soun							
	FOOD ITEM							
	Robbie is trying to determine which food items would be desirable for the cafeteria							
	menu. He surveyed and plotted the results of 'yes' votes versus 'no' votes on a double							
	bar graph so that he can quickly see the choices of the students, and place that item on							
	the menu. According to the double bar graph, answer the following questions:							

- 1. Which food item has the maximum "Yes" votes?
- 2. Which food item is less preferred by students?
- 3. Which food item got 20 "Yes" votes?

Q9.	The scores of 13 students out of 100 are given: 56, 79, 77, 48, 90, 68, 79, 92, 71,79,60, 59 and 65. Find the <b>median</b> and <b>mode</b> of their scores.								
Q10	Age (in years) of 6 children of the two groups are recorded below:				Age (in Years)				
					Group A	Group B			
	a) Find the mea	n age for each	aroup		7	7			
	b) Mean age of	which group is	greater.		7	9			
		5 1	5		9	11			
					8	12			
				10	12				
					10	12			
Q11.	A die was thrown 15 times and the result recorded were 5, 3, 4, 1, 2, 6, 4, 2, 2, 3, 1, 5, 6, 1, 2 Find the mean, median and mode of the data.								
Q12.	The number of pages that Carolyn wrote in her journal each day from Monday to Friday is 10, 18, 12, 16, and 19. What is the mean number of pages she wrote per day?								
	LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)								
Q13.	The results of the	ne pass percent	age of Class X	and XII in the	C.B.S.E. exar	nination for 5			
	years is given ir	the following t	able:						
	Year	2001-02	2002-03	2003-04	2004-05	2005-06			
	×	90	95	90	80	98			
		05	80	95	00	05			
		95		65	85 90 95				
	Draw a double i	bar graph to rep	present the data	3.					
Q14.	A student record	ded her scores	on weekly GK q	uizzes that we	re marked ou	ut of a possible 10			
	points. Her scor	es were as follo	ows:						
	8, 5, 8, 5, 7, 6,	7, 7, 5, 7, 5, 5,	6, 9, 9, 8, 9, 7	, 9, 9, 6, 8, 6,	6, and 7.				
	Find the mode a	and mean of he	r scores on the	weekly GK qu	izzes by using	g the frequency			
	table.	<u> </u>							
Q15.	Read the double	e bar graph	uing 1			Davis			
	carefully and answer the following								
	(i) What is the information given $\int_{210}^{1} dt$								
	by the double graph?								
	(ii) Which mode of transport do $\overline{\$}_{=150}^{2}$								
	girls use more than boys?								
	(iii) Which mode of transport boys								
	use the most?								
	(iv) In which me	ode of transpor	t Z						
	number of girls	is half the num	ber <sup>30</sup>						
	of boys?		0	School bus y	Valking Bvc	ycle Other vehicles			

ANSWERS								
Q1.	34	Q2.	10	Q3.	188cm 150cm			
Q4.	13	Q5.	19	Q6.	2			
Q7.	17	Q8.	<ol> <li>French fries</li> <li>Tomato soup</li> <li>Veg pizza</li> </ol>	Q9.	Median 71 Mode 79			
Q10.	a) 8.5 Group A & 10.5 Group B, b) group B	Q11.	3.1 3 2	Q12.	15			
Q13.		Q14.	Mode 7, and 6.9	Q15.				