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	Class :VII	
	Worksheet No1	
	Subject:- Mathematics	
	Name of the chapter :- Data Handling	
	Section A	
1	The mode of a set of observations is the value which	[1]
	a) occurs most frequently	
	b) is central	
	c) is between maximum and minimum	
	d) none of the foregoing	
2	The median of the following data 46, 64, 87, 41, 58, 77, 35, 90, 55, 33, 92, is	[1]
	a) 58	
	b) 60.2	
	c) 77	
	d) 87	
3	Find the median of the data set, which shows the weights (in pounds) of 10 students in Mr.	[1]
	Brij's class.61, 56, 60, 57, 62, 63, 63, 63, 58 and 73	
	a) 65	
	b) 61.5	
	c) 63	
	d) 64	
4	Let x, y, z be three observations. The mean of these observations is	[1]
	a) $\frac{x+y+z}{z}$	
	$x = \frac{3}{x \times y \times z}$	
	b) $\frac{-3}{3}$	
	c) $\frac{x \times y + z}{z}$	
	$x^{3}y^{-z}$	
	$d) - \frac{1}{3}$	
5	The heights (in inches) of 10 students in Mr. Tej's class are 64, 59, 63, 60, 65, 66, 66, 66, 61	[1]
	and 76. Find the range of the heights of the students.	
	a) 16	
	b) 14	
	c) 15	
	d) 17	
6	Given below a graph representing the number of electric bulbs sold by a shopkeeper during a	[1]

	50 1	
	$ \begin{array}{c} 45 \\ 40 \\ 35 \\ 30 \\ 25 \\ 20 \\ 15 \\ 10 \\ 5 \\ 0 \\ \end{array} $	
	week of the month: Monday Tuesday Wednesday Thursday Friday Saturday	
	What is the ratio of minimum and maximum sale?	
	a) 5 : 8	
	b) 5 : 4	
7	(0, 5; 9)	[1]
/	range of the data?	[1]
	a) 12°C	
	b) 8°C	
	c) 13°C	
	d) 10°C	
8	In a World Cup final match against Srilanka, for six times Sachin Tendulkar hits a six out of 30 balls he plays. What is the probability that in a given throw, the ball does not hit a six? a) $\frac{5}{4}$ b) $\frac{4}{5}$ c) $\frac{3}{4}$ d) $\frac{1}{4}$	[1]
9	The mean of first five prime numbers is	[1]
	a) 7	
	b) 5.6	
	c) 3	
10	d) 3.6	543
10	Mean of a set of observations is the value which	[1]
	a) occurs most frequently	
	b) is a representative of whole group	
	d) is the sum of observations	
	Section B	
11	State true or false:	[1]
11	Mean, median and mode are the measures of central tendency	[*]
12	State true or false:	[1]
	The range of the data 3, 7, 1, -2, 2, 6, -3, -5 would change if 8 was added to each value in	r-1

	the data.	
13	State true or false:	[1]
	The mode is always one of the numbers in a data.	
14	Fill in the blanks:	[1]
	The range of the data 6, 8, 16, 22, 8, 20, 7, 25 is	
15	Fill in the blanks:	[1]
	If there are two middle numbers in the list, the median is the of the two middle	
	numbers.	
16	Fill in the blanks:	[1]
	The difference between the highest and the lowest observation of data is called	
17	Assertion (A): The median of the distribution 2, 3, 4, 7, 5, 1, 6 is 4.	[1]
	Reason (R): The middle most observation of a data series is called the median of the series.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	
18	Assertion (A): Mean is one of the numbers in data.	[1]
	Reason (R): The data 6, 4, 3, 8, 9, 12, 13, 9 has mean 8.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	
19	Assertion (A): In the histogram X - axis represents frequency.	[1]
	Reason (R): In the histogram, the bars are placed continuously side by side with no gap	
	between adjacent bars.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A is false but R is true.	
20	Assertion (A): Median describes the centre of a set of data.	[1]
	Reason (R): Median of the data 46, 64, 87, 41, 58, 77, 35, 90, 55, 33, 92 is 58.	
	a) Both A and R are true and R is the correct explanation of A.	
	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	
	d) A 1s false but R 1s true.	
01	Section C	
21	Find the mode of the given data: 10,8,4,7,8,11,1,5,8,4,2,3,6,8	[2]
22	The enrolment of a school during six consecutive years was as follows:	[2]
	1555, 1670, 1750, 2013, 2540, 2820. Find the mean enrolment of the school for this period.	
23	A batsman scored the number of runs in six innings:	[2]
	36, 35, 50, 46, 60, 55	
	Calculate the mean runs scored by him in an inning.	
24	Take the data giving the minimum and the maximum temperature of various cities given in	[2]
	Table. Plot a double bar graph using the data and answer the question: Name the city which	
	has the least difference between its minimum and the maximum temperature.	



	Subject	1 st term(M.M.10	0) $2 nd$ term	n(M.M. 1	100)		
	English 67		70	70				
	Hindi 72		65	65				
	Maths 88			95	95			
	Science	81		85				
	S. Science	73		75				
	In which s	ubject, h	as the c	hild impre	oved hi	s perfori	nance the most?	
30	Consider t	his data c	collecte	d from a s	survey	of a colo	ny.	[2]
	Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics		
	Watching	1240	470	510	423	250		
	Participati	ng 620	320	320	250	105		
	Which is r	nore pref	erred, v	watching o	or parti	cipating	in sports?	
	Section D							
31	A car selle	er collects	s the fo	llowing da	ata and	sold in h	nis shop.	[3]
	Colour of	car Num	ber of c	ars sold				
	Red	15						
	Black	20						
	White	17						
	Silver	12						
	Others	9						
	1. WI	nich colo	ur of th	e car is m	ost like	ed?		
	2. WI	nich meas	sure of	central ter	ndency	was use	d in part (1)?	
32	Sale of English and Hindi books in the year 1995, 1996, 1997 and 1998 are given below. Draw [3							[3]
	a double bar graph and answer the following questions :							
	Year 1995 1996 1997 1998							
	English3 350 400 450 620							
	Hindi 500 525 600 650							
	1 In which year was the difference in the sale of the two language books least?							
	1. m 2. Ca	n voli sav	ur wus z that th	ne demand	l for En	ine sale	oks rose faster? Justify	
33	Number of	f children	in six	different of	classes	are give	n below, Represent the data on a bar graph.	[3]
	Class N	umber of	Childre	n		U		
	Fifth	13	5					
	Sixth	120	0					
	Seventh	95	i					
	Eighth	100	0					
	Ninth	90)					
	Tenth	80						
	1. Ho	w would	you ch	loose a sca	ale?			
	2. Answer the following questions:							
	a. Which class has the maximum and the minimum number of children?							
	b. Find the ratio of students of class sixth to the students of the class eighth.							<u> </u>
34	A die was	thrown 1	5 times	s and follo	owing o	outcomes	were recorded: 5, 3, 4, 1, 2, 6, 4, 2, 2, 3, 1,	[3]
	5, 6, 1, 2.							

	Find the mean, median mode of the data.										
35	Number of children in six different classes are given below, Represent the data on a bar graph. [3]										
	Class Number of Children										
	Fift	h	135								
	Sixt	h	120								
	Sev	enth	95								
	Eig	hth	100								
	Nin	th	90								
	Ten	th	80								
	Find the ratio of students of class sixth to the students of class eight.										
	Sect	Section E									
36	36 The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:										
	Day	,	Mon Tues We	d Thurs Fri	Sat Sun						
	Rai	nfall (in mm) 0.0 12.2 2.1	0.0 20.	5 5.5 1.0						
	1.	F	ind the range of the	rainfall in	the above da	ata.					
	2.	F	ind the mean rainfa	ll for the v	veek.						
	3.	0	n how many days y	vas the rai	nfall less tha	n the mean rainfall					
37	Perc	entas	ge wins in ODI by 8	3 top crick	et teams.		[5]				
			From Champions	Trophy to	Last 10 ODI	1					
	Te	eams	World Cup-	·06	in 07						
	S A	outh frica	75%		78%						
	Au	stralia	u 61%		40%						
	Sri	Lanka	a 54%		38%						
	l Ze	Vew aland	47%		50%						
	En	gland	46%		50%						
	Pa	kistan	45%		44%						
	V Ir	Vest Idies	44%		30%						
	India 43% 56%										
38	The	heig	hts of 10 girls were	measured	in cm and th	e results are as follows:, 150, 139, 128,	[5]				
	151,	132	, 146, 149, 143, 141	•							
	1.	W	hat is the height of	the tallest	girl?						
	2.	W	/hat is the height of	the shorte	est girl?						
	3.	W	/hat is the range of	the data?	-						
	4. What is the mean height of the girls?										
	5. How many girls have heights more than the mean height.										
	Section F										
39	Read the text carefully and answer the questions: The performance of a student in 1st Term [5]										
	and 2nd Term is given in the form of double bar graph. Answer the following questions.										



	b) Swimming								
	c) Cricket								
	d) Hockey								
3.	Which is more preferred, watching or participating in sports?								
	a) Participating								
b) Watching									
	c) Both Participating and Watching								
	d) None of these								
4.	. Find the difference between the number of people watching the games to number of								
	people participating in the games.								
	a) 1825								
	b) 1285								
	c) 1925								
	d) 1295								
5.	Swimming is least popular sport.								
	(a) True (b) False.								