



INDIAN SCHOOL DARSAIT

DEPARTMENT OF MATHEMATICS



Subject : Mathematics Topic : Data Handling(5) Date of Worksheet : _____

Resource Person: Mrs Bhavya Vijelesh Date : _____

Name of the Student : _____ Class & Division :VII__ Roll Number : __

S.No.	Section A(Basic Skills)	Marks																																																												
1 .	<p>In a mathematics test, the following marks were obtained by 40 students. Arrange these marks in a table using tally marks.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">8</td><td style="padding: 5px;">1</td><td style="padding: 5px;">3</td><td style="padding: 5px;">7</td><td style="padding: 5px;">6</td><td style="padding: 5px;">5</td><td style="padding: 5px;">5</td><td style="padding: 5px;">4</td><td style="padding: 5px;">4</td><td style="padding: 5px;">2</td> </tr> <tr> <td style="padding: 5px;">(a) 4</td><td style="padding: 5px;">9</td><td style="padding: 5px;">5</td><td style="padding: 5px;">3</td><td style="padding: 5px;">7</td><td style="padding: 5px;">1</td><td style="padding: 5px;">6</td><td style="padding: 5px;">5</td><td style="padding: 5px;">2</td><td style="padding: 5px;">7</td> </tr> <tr> <td style="padding: 5px;">(b) 7</td><td style="padding: 5px;">3</td><td style="padding: 5px;">8</td><td style="padding: 5px;">4</td><td style="padding: 5px;">2</td><td style="padding: 5px;">8</td><td style="padding: 5px;">9</td><td style="padding: 5px;">5</td><td style="padding: 5px;">8</td><td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">(c) 7</td><td style="padding: 5px;">4</td><td style="padding: 5px;">5</td><td style="padding: 5px;">6</td><td style="padding: 5px;">9</td><td style="padding: 5px;">6</td><td style="padding: 5px;">4</td><td style="padding: 5px;">4</td><td style="padding: 5px;">6</td><td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">(d) 7</td><td style="padding: 5px;">4</td><td style="padding: 5px;">5</td><td style="padding: 5px;">6</td><td style="padding: 5px;">9</td><td style="padding: 5px;">6</td><td style="padding: 5px;">4</td><td style="padding: 5px;">4</td><td style="padding: 5px;">6</td><td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">(e) 7</td><td style="padding: 5px;">4</td><td style="padding: 5px;">5</td><td style="padding: 5px;">6</td><td style="padding: 5px;">9</td><td style="padding: 5px;">6</td><td style="padding: 5px;">4</td><td style="padding: 5px;">4</td><td style="padding: 5px;">6</td><td style="padding: 5px;">6</td> </tr> </table> <p>(a) Find how many students obtained marks equal to or more than 7. (b) How many students obtained marks below 4?</p>	8	1	3	7	6	5	5	4	4	2	(a) 4	9	5	3	7	1	6	5	2	7	(b) 7	3	8	4	2	8	9	5	8	6	(c) 7	4	5	6	9	6	4	4	6	6	(d) 7	4	5	6	9	6	4	4	6	6	(e) 7	4	5	6	9	6	4	4	6	6	3
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2.	<p>Following table shows the number of bicycle manufactured in a factory during the year 1998 to 2002. Illustrate this data using a bar graph.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Years</th> <th style="padding: 5px;">Number of bicycles manufactured</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">1998</td> <td style="padding: 5px;">800</td> </tr> <tr> <td style="padding: 5px;">1999</td> <td style="padding: 5px;">600</td> </tr> <tr> <td style="padding: 5px;">2000</td> <td style="padding: 5px;">900</td> </tr> <tr> <td style="padding: 5px;">2001</td> <td style="padding: 5px;">1100</td> </tr> <tr> <td style="padding: 5px;">2002</td> <td style="padding: 5px;">1200</td> </tr> </tbody> </table> <p>(a) In which year was the maximum number of bicycles manufactured? (b) In which year was the minimum number of bicycles manufactured?</p>	Years	Number of bicycles manufactured	1998	800	1999	600	2000	900	2001	1100	2002	1200	3																																																
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3	<p>The following data shows the number of cars produced in a factory for the first six months of the years 2005 and 2006.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;"></th> <th style="padding: 5px;">Jan</th> <th style="padding: 5px;">Feb</th> <th style="padding: 5px;">Mar</th> <th style="padding: 5px;">Apr</th> <th style="padding: 5px;">May</th> <th style="padding: 5px;">Jun</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">2005</td> <td style="padding: 5px;">8600</td> <td style="padding: 5px;">9600</td> <td style="padding: 5px;">7600</td> <td style="padding: 5px;">4400</td> <td style="padding: 5px;">3200</td> <td style="padding: 5px;">800</td> </tr> <tr> <td style="padding: 5px;">2006</td> <td style="padding: 5px;">8600</td> <td style="padding: 5px;">9400</td> <td style="padding: 5px;">8000</td> <td style="padding: 5px;">6400</td> <td style="padding: 5px;">4000</td> <td style="padding: 5px;">1200</td> </tr> </tbody> </table>		Jan	Feb	Mar	Apr	May	Jun	2005	8600	9600	7600	4400	3200	800	2006	8600	9400	8000	6400	4000	1200	4																																							
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	<p>Represent the data given above on a double bar graph.</p> <p>(a) Find the ratio of the number of cars produced in April 2005 to the number of cars produced in April 2006.</p> <p>(b) Find the average number of cars produced every month (in the first six months) in the year 2005.</p>																
4	<p>Salaries of nine employees of a company are given below:</p> <p>Rs8000, Rs10000, Rs10000, Rs8000, Rs50000, Rs8000, Rs9000, Rs5000, Rs9000</p> <p>Find the mean, median and mode for the above data. Also, state which is the best measure to represent this data.</p>	3															
5	<p>Mrs Gupta's monthly expenditure on food for five consecutive months from January to May is Rs 15000, Rs 14000, Rs 13500, Rs 14500 and Rs 13000.</p> <p>(a) What is the maximum monthly expenditure?</p> <p>(b) In which month did she spend the least?</p> <p>(c) Find the range of monthly expenditure.</p> <p>Calculate average monthly expenditure on food.</p>	3															
6	<p>Sale of English and Hindi books in the years 1995, 1996, 1997 and 1998 are given below:</p> <table border="1" data-bbox="252 1037 823 1182"> <thead> <tr> <th>Years</th> <th>1995</th> <th>1996</th> <th>1997</th> <th>1998</th> </tr> </thead> <tbody> <tr> <td>English</td> <td>350</td> <td>400</td> <td>450</td> <td>620</td> </tr> <tr> <td>Hindi</td> <td>500</td> <td>525</td> <td>600</td> <td>650</td> </tr> </tbody> </table> <p>Draw a double bar graph and answer the following:</p> <p>(a) In which year was the difference in the sale of the two language books least?</p>	Years	1995	1996	1997	1998	English	350	400	450	620	Hindi	500	525	600	650	4
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Section C(Hot Questions)																	
7	<p>Find the value of x if the mean of the following data is 9.</p> <p>12, 5, 3, 18, 10, 17, x, 6, 6</p>	2															
8	<p>Find the median of 33, 31, 48, 45, 41, 92, 78, 51, and 61. If 92 is replaced by 29, what will be the new mean?</p>	3															
9	<p>The average height of 30 students is 150 cm. It was detected later that one value of 165 cm was wrongly noted as 135 cm for the computation of the mean. Find the correct mean.</p>	2															
10	<p>The mean of 5 numbers is 25. If one of the numbers is excluded, the mean gets reduced by 2. Determine the excluded number.</p>	3															