



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Data Handling	Date of Worksheet
Resource Person: Mrs Priya Bijukumar	Date : _____	
Name of the Student : _____	Class & Division : VIII	Roll Number : ____

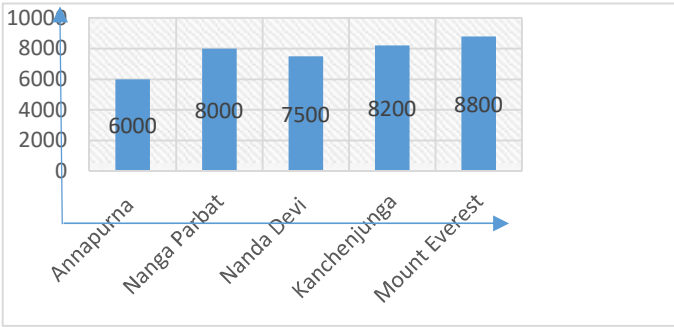
S.No.	SECTION-A	Marks												
1	Convert the following in to improper fractions; (a) $2\frac{4}{9}$ b) $1\frac{3}{5}$													
2	Convert the following into mixed fractions; a) $\frac{1}{5}$ b) $\frac{1}{5}$													
3	Write the equivalent fractions of the following; a) $\frac{2}{5}$ b) $\frac{4}{7}$													
4	Reduce the following into lowest terms; a) $\frac{1}{2}$ b) $\frac{4}{5}$													
5	Mr. Yadav bought $\frac{1}{2}$ kg of sweets . After his children had eaten some , there was $\frac{1}{1}$ kg left. How much had they eaten ?													
<b>SECTION-B</b>														
1	<p>Given below is a table which shows the number of students in class X</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th>Year</th> <th>2005-06</th> <th>2006-07</th> <th>2007-08</th> <th>2008-09</th> <th>2009-10</th> </tr> </thead> <tbody> <tr> <td>No. of students</td> <td>800</td> <td>975</td> <td>1100</td> <td>1400</td> <td>1625</td> </tr> </tbody> </table> <p>Represent the above data by a histogram</p>	Year	2005-06	2006-07	2007-08	2008-09	2009-10	No. of students	800	975	1100	1400	1625	3
Year	2005-06	2006-07	2007-08	2008-09	2009-10									
No. of students	800	975	1100	1400	1625									
2	<p>The wheight (in Kg) of 22 students were recorded as under 25, 32, 38, 44, 42, 36, 34, 25, 35, 30, 26, 32, 35, 42, 43, 28, 26, 36, 35, 30, 30, 33.</p> <p>Prepare a frequency distribution table, taking equal class intervals and starting from 25 -30, 30- 35 and so on.</p>	3												
3	<p>The data on the mode of transport used by 720 students are given below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th>Mode of transport</th> <th>Bus</th> <th>Cycle</th> <th>Train</th> <th>Car</th> <th>Scooter</th> </tr> </thead> <tbody> <tr> <td>No. of students</td> <td>120</td> <td>180</td> <td>240</td> <td>80</td> <td>100</td> </tr> </tbody> </table> <p>Represent the above data by a pie chart.</p>	Mode of transport	Bus	Cycle	Train	Car	Scooter	No. of students	120	180	240	80	100	3
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No. of students	120	180	240	80	100									





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4	 <p>Given above is a bar graph showing the heights of five mountain peaks: Read the bar graph carefully and answer the following questions.</p> <p>(i) Which is the highest peak and what is its height? (ii) What is the ratio of the heights of the highest peak and the next highest peak?</p> <p>Arrange the heights of the given peaks in descending order</p>	3												
5	Spin a spinner numbered 1 to 7. what is the probability of getting an odd number.	2												
6	A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it is (i) a two digit number (ii) a number divisible by 5	2												
7	Find the probability of selecting a vowel from the word MATHEMATICS	2												
8	<p>The following table shows the favourite sports of 250 students of a school.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Sports</th> <th style="padding: 5px;">Cricket</th> <th style="padding: 5px;">Football</th> <th style="padding: 5px;">Tennis</th> <th style="padding: 5px;">Badminton</th> <th style="padding: 5px;">Swimming</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">No. of students</td> <td style="padding: 5px;">75</td> <td style="padding: 5px;">85</td> <td style="padding: 5px;">80</td> <td style="padding: 5px;">55</td> <td style="padding: 5px;">65</td> </tr> </tbody> </table> <p>Represent the above data by a pie chart.</p>	Sports	Cricket	Football	Tennis	Badminton	Swimming	No. of students	75	85	80	55	65	3
Sports	Cricket	Football	Tennis	Badminton	Swimming									
No. of students	75	85	80	55	65									
9	Can the probability of an event be $\frac{-5}{3}$ ? Why or why not?	3												
10	A bottle contains 8 marbles; 3 are red and 5 are blue. What is the probability that you will pick a blue marble? What is the probability that it is not a blue marble?	3												
<u>*SECTION- C*</u>														
1	<p>Two dice are rolled. Find the probability that</p> <p>a) getting a sum equal to 8</p> <p>b) getting a sum less than 5</p> <p>c) getting a sum more than 10</p>													



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2	A coin tossed 40 times. How many times approximately will tail comes up?	
3	What is the sample space of tossing a coin and rolling a dice together	
4	A committee of three is chosen from five councilors - Adams, Burke, Cobb, Dilby and Evans. What is the probability Burke is on the committee?	