



**Assignment**

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Date: \_\_ / \_\_ / \_\_\_\_

Name: \_\_\_\_\_

Max Marks: 20

**Section- A (One Marks Each)**

<b>1</b>	Twenty children were asked about the number of hours they watched TV in the previous week. The list of the number of hours is as follow. 1      6      2      3      5      12      5      8      4      8 3      2      8      5      9      6      8      7      14      12 How many children watched TV for eight hours or less hours a week?														
<b>2</b>	The relative humidity ( in percent) of a certain city for 10 days is as follows: 96.2,84.9,90.2,95.7,98.3,92.1,97.3,89,97.3,93.5 What is the range?														
<b>3</b>	From the given data in the table, find the frequency of the numbers less than 55. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Class interval</td> <td style="width: 12.5%;">5-15</td> <td style="width: 12.5%;">15-25</td> <td style="width: 12.5%;">25-35</td> <td style="width: 12.5%;">35-45</td> <td style="width: 12.5%;">45-55</td> <td style="width: 12.5%;">55-65</td> </tr> <tr> <td>Frequency</td> <td>10</td> <td>13</td> <td>6</td> <td>29</td> <td>23</td> <td>15</td> </tr> </table>	Class interval	5-15	15-25	25-35	35-45	45-55	55-65	Frequency	10	13	6	29	23	15
Class interval	5-15	15-25	25-35	35-45	45-55	55-65									
Frequency	10	13	6	29	23	15									
<b>4</b>	In a city, the weekly observations on the cost of living index made in a study are given in the following table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 30%;">Cost of living index</td> <td style="width: 15%;">148-158</td> <td style="width: 15%;">158-168</td> <td style="width: 15%;">168-178</td> </tr> <tr> <td>No of weeks</td> <td>5</td> <td>20</td> <td>9</td> </tr> </table> What is the class mark of interval 158-168?	Cost of living index	148-158	158-168	168-178	No of weeks	5	20	9						
Cost of living index	148-158	158-168	168-178												
No of weeks	5	20	9												
<b>5</b>	The following table shows the frequency distribution of weekly wages of employees of a company. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 25%;">Wages(in rupees)</td> <td style="width: 12.5%;">400-499</td> <td style="width: 12.5%;">500-599</td> <td style="width: 12.5%;">600-699</td> <td style="width: 12.5%;">700-799</td> </tr> <tr> <td>No of employees</td> <td>10</td> <td>15</td> <td>18</td> <td>17</td> </tr> </table> What is the class size of the distribution?	Wages(in rupees)	400-499	500-599	600-699	700-799	No of employees	10	15	18	17				
Wages(in rupees)	400-499	500-599	600-699	700-799											
No of employees	10	15	18	17											
<b>6</b>	Given below are the marks secured by 20 students in a test. 20,26,49,44,12,17,22,10,5,47,33,32,23,34,45,16,4,8,21,28 How many students are there who secured less than 20 marks?														

**Section-B (Two Marks Each)**

<b>7</b>	The class marks of a distribution are given below: 5,15,25,45,55 Determine: i. Class size ii. Class limits																		
<b>8</b>	Find the unknown entries (given as X,Y,Z,T)in the following frequency distribution. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 25%;">Class interval</td> <td style="width: 25%;">Frequency</td> <td style="width: 25%;">Cumulative frequency</td> </tr> <tr> <td>30-40</td> <td>12</td> <td>X</td> </tr> <tr> <td>40-50</td> <td>Y</td> <td>17</td> </tr> <tr> <td>50-60</td> <td>15</td> <td>32</td> </tr> <tr> <td>60-70</td> <td>Z</td> <td>42</td> </tr> <tr> <td>70-80</td> <td>8</td> <td>T</td> </tr> </table>	Class interval	Frequency	Cumulative frequency	30-40	12	X	40-50	Y	17	50-60	15	32	60-70	Z	42	70-80	8	T
Class interval	Frequency	Cumulative frequency																	
30-40	12	X																	
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50-60	15	32																	
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70-80	8	T																	

Section-C (Three Marks Each)

9	The following table presents the number of illiterate females in the age group (10-34) in a town.					
	Age group	10-14	15-19	20-24	25-29	30-34
	No of females	300	980	800	580	290
Draw a histogram to represent the above data.						
10	The marks (out of 50) obtained by 50 a student is tests are given below. 25,35,42,32,9,37,39,45,47,20,18,12,7,12,16,44,36,45,29,12,25,29,30,31,49,44,28,5,15,17,18,28,46,20,32,47,26,27,20,4,29,7,17,45,42,32,19,27,48,4					
	i. Taking class intervals as 0-10, 10-20 and so on, construct a frequency distribution table (make use of tally)					
	ii. How many students obtained less than 30 marks?					
	iii. What is the class mark of fourth class interval?					

Section-D (Four Marks Each)

11	The following are the scores of two groups of class IV students in a test of reading ability.		
	Scores	Group A	Group B
	50-52	4	2
	47-49	10	3
	44-46	15	4
	41-43	18	8
	38-40	20	12
	35-37	12	17
	32-34	13	22
	Total	92	68

Construct a frequency polygon for each of these two groups on the same axes.