

DIPS EDUCATIONAL RESEARCH AND DEVELOPMENT BOARD
 ASSIGNMENT August 2017

Class IX (Revised)

Subject- Maths

Topic- Lines and angles

Statistics

M. M. - 20

Time- 45 min

Sr. No.	Questions	Marks																		
1.	Find the mean of first five natural numbers.	1																		
2.	If an angle is half of its complementary angle then find its degree measure	1																		
3.	Compute the value of x in the given figure	2																		
4.	The angles of a triangle are $(x - 40)^\circ$, $(\frac{x}{2} - 10)^\circ$ and $(x - 20)^\circ$. Find the value of x and then the angles of the triangle.	2																		
5.	Find the sum of the deviations of the variate values 3, 4, 6, 7, 8, 14 from their mean	2																		
6.	Find the median of the following observations 41, 43, 127, 99, 61, 92, 71, 58, 57. If 58 is replaced by 85, what will be the new median	2																		
7.	If two parallel lines intersected by a transversal, the bisectors of any pair of alternate interior angles are parallel.	3																		
8.	Find the missing frequencies in the following distribution table if it is known that the mean of the distribution is 50	3																		
<table border="1"> <tbody> <tr> <td data-bbox="263 2004 391 2072">x:</td> <td data-bbox="391 2004 526 2072">10</td> <td data-bbox="526 2004 678 2072">30</td> <td data-bbox="678 2004 837 2072">50</td> <td data-bbox="837 2004 997 2072">70</td> <td data-bbox="997 2004 1165 2072">90</td> <td data-bbox="1165 2004 1436 2072"></td> </tr> <tr> <td data-bbox="263 2072 391 2139">f:</td> <td data-bbox="391 2072 526 2139">17</td> <td data-bbox="526 2072 678 2139">f_1</td> <td data-bbox="678 2072 837 2139">32</td> <td data-bbox="837 2072 997 2139">f_2</td> <td data-bbox="997 2072 1165 2139">19</td> <td data-bbox="1165 2072 1436 2139">Total 120</td> </tr> </tbody> </table>							x:	10	30	50	70	90		f:	17	f_1	32	f_2	19	Total 120
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f:	17	f_1	32	f_2	19	Total 120														

9. The daily earnings of 30 workers are given below:-

Daily earning (in ₹)	No. of workers
1-50	3
50-100	7
100-150	4
150-200	5
200-250	4
250-300	3
300-350	2
350-400	2

Draw a histogram and frequency polygon to represent the above data.