INDIAN SCHOOL MUSCAT

SENIOR SECTION

DEPARTMENT OF MATHEMATICS

CLASS IX

WORKSHEET NO.9STATISTICS

SECTION A: (1 MARK)

1.	The range of the data : 25, 18, 20, 22, 16, 6, 17, 12, 30, 32, 10, 19, 8, 11, 20 is____	26
2.	Find the mode of the given data: 50,70,50,70,80,70,70,80,70,50	70
3.	Let $\bar{x}$ be the mean of $x_1, x_2, \ldots, x_n$, and $\bar{y}$ the mean of $y_1, y_2, \ldots, y_n$. If $\bar{z}$ is the mean of $x_1, x_2, \ldots, x_n, y_1, y_2, \ldots, y_n$ then $\bar{z}$ is equal to	

SECTION B: (2 MARKS)

4.	Find the mean of the first 8 natural numbers	4.5
5.	The mean of 6 numbers is 20.If one number is deleted, their mean is 15.Find the deleted number?	45
6.	The monthly salaries (in Rs.) of 10 employees of a factory are given below: 12000, 8500, 9200, 7400, 11300, 12700, 7800, 11500, 10320, 8100. Find the median salary.	97 60
7.	The mean of 100 observations is 50. If one of the observation 50 is replaced by 150, what is the resulting mean?	51

SECTION C: (3 MARKS)

8.	The class marks of a given frequency distribution are 19.5,26.5,33.5 and 40.5. Write the corresponding class intervals.	16-23 So on
9.	Find the mean and median of first ten prime numbers.	12.9,12
10.	For the data 11, 15, 17 x+1, 19, x-2, 3, if the mean is 14, find the value of x. Using the value of x.	17
11.	The relative humidity (in per cent)for Delhi for the month of August,1974 as reported by the meteorological Department are given below :Relative Humidity (in per cent) 90,97,92,95,93,95,93,85,83,85,83,77,83,77,74,60,71,65,74,80,87,82,81,76,61,63,58,58, 56,57, 54.Construct a grouped frequency table using class interval as 50-60 and so on.	

SECTION D: (4 MARKS)

12. Find the value of a, if the mean of the following is 20

X	15	17	19	20 + a	23
f	2	3	4	5a	6

a=1

13. Draw a histogram and a frequency polygon for the given data:

Daily earnings Rs	125-134	135-144	145-154	155-164	165-174	175-184
No of workers	2	7	10	15	10	6

14. Draw a histogram to represent the data:

Number of letters	1-4	4-6	6-8	8-12	12-20
Number of surnames	6	30	44	16	4

15. In a small unit of afactory there are 10 employees: a manager, a supervisor and 8 laborers. Salary of each laborer is Rs 4500 and each supervisor is Rs 8000 and the manager gets Rs 15000. Calculate the mean, median, mode of the salaries of employees.

5900, 4500, 4500