INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS
CH:14 -STATISTICS

Name: _____ Date:_____ Class: X Sec: ___

1. Find the missing frequency if the mean is 17.52

C. I	10- 12	12 - 14	14 - 16	16 - 18	18- 20	20- 22	22- 24
Frequency	2	5	8	12	f	4	5

2. A survey was conducted by a group of students as a part of their environment awareness programme, in which they collected the following data regarding the number of plants in 20 houses in a locality. Find the mean number of plants per house. Number of plants 0 − 2 2 − 4 4 − 6 6 − 8 8 − 10 10 − 12 12 − 14 Number of houses 1 2 1 5 6 2 3 Which method did you use for finding the mean, and why?

3. Convert the following frequency distribution into more than type & less than type and hence find the median.

Marks obtained	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
No. of students	5	7	8	9	12	11	6

4. Consider the following distribution of daily wages of 50 worker of a factory. Daily wages (in Rs) 100 − 120 120 − 140 140 −1 60 160 − 180 180 − 200 Number of workers 12 14 8 6 10 Find the mean daily wages of the workers of the factory by using an appropriate

5. The mean of 9 observations is 60. If the mean of 1st 5 observation is 50 and that of last of 5 observations 45. Find the 6th observation

6. The total number of marks scored by class in test is given below. Find the mean.

Below 20	4
Below 40	12
Below 60	30
Below 80	44
Below 100	50

7. Find the median for the following data:

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	4	8	10	12	10	4	2

8. Compute the mode for the following frequency distribution.

Size of items:	0-4	4-8	8-12	12-16	16-20	20-40	24-28	28-32	32-36	36-40
Frequency:	5	7	9	17	12	10	6	3	1	0

9. If the mean of the following distribution is 27, find the value of p:

Class-interval	0-10	10-20	20-30	30-40	40-50
No. of Workers	8	p	12	13	10

10. If the mean of the following data is 20, find the value of p.

x:	15	17	19	21	23
f:	2	3	4	$5p$	6

11. Write the frequency distribution table for the following data.

Marks	Below 30	Below 40	Below 50	Below 60	Below 70
No. of students	0	15	18	22	28

12. Find the mean

C • I	0 - 6	6 - 12	12 - 18	18 - 24	24 - 30
Frequency	8	6	12	14	8

13. Write the frequency distribution table for the following.

Marks	Below 10	Below 20	Below 30	Below 40	Below 50	Below 60
No. of students	0	14	22	30	40	52

14. What is mode of a data if mean is 32 and median is 24.

15. What is the mean of 1st n natural numbers ?