INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

13. Statistics

Nam_____ Date:_____ Class: X Sec: ___

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

2. Write the emperical relationship between mean, median and mode.

3. Find the mean by direct method and step deviation method.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	7	8	6	9	10

4. Find the median :

Class	0-20	20-40	40-60	60-80	80-100	100-120	120-140
Frequency	7	6	5	9	4	5	4

5. Find the median :

Marks	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50
Number	6	14	24	35	40

6. Find the mode :

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	12	13	15	16	14	13	14

7. Find the missing frequencies x and y if the median is 20.75. The total frequency is 100.

Class	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	7	10	x	13	y	10	14	9

8. Write the frequency distribution table for the following data and find mean, median and mode.

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

9. 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

10. The mean of the following distribution is 48 and the sum of all the frequencies is 50. Find the missing frequencies x and y.

Class	20-30	30-40	40-50	50-60	60-70
Frequency	8	6	x	11	y