INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH:14 Statistics

Name: _____ Date:_____ Class: IX Sec: ___

1. Find the median of the first 6 prime numbers.

2. Find the Mode of the following data
5, 7, 8, 8, 9, 8, 5, 7, 10, 8, 7

3. If the mean of the following observations $x, x+3, x+5, x+7, x+10$ is 9.Find the mean of the first three observations.

4. Find the range of the following data 25.7, 16.3, 2.8, 21.7, 24.3, 22.7, 24.9.

5. Write the class mark of the class interval 70 – 80

6. Write the width of the class interval 70.5 – 75.5

7. The mean of 100 observations is 50. If the observation 50 is replaced by 150, what will be the resulting mean ?

8. Find the mean of the following frequency distribution showing the marks obtained in a class test by 20 students.

Marks	10	15	20	25
No. of students	4	5	8	3

9. Draw a histogram and frequency polygon for the following data

Weight in (Kg)	45 – 50	50 – 55	55 – 60	60 – 65	65 – 70	70 – 75
Number of persons	18	15	25	12	16	14

11. Draw a histogram for the following distribution:

Marks	100 – 150	150 – 200	200 – 300	300 – 500	500 – 800
No. of students	60	100	100	80	180

12. 100 surnames were randomly picked up from a local telephone directory and a frequency distribution of the number of letters in the English alphabets in the surnames was found as follows:

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

a) Draw a histogram to depict the given information

b) Write the class interval in which the maximum number of surnames lie

13. Following table gives the distribution of students of sections A and B of a class according to the marks obtained by them.

Section-A		Section-B	
Marks	Frequency	Marks	Frequency
0-15	5	0-15	3
15-30	12	15-30	16
30-45	28	30-45	25
45-60	30	45-60	27
60-75	35	60-75	40
75-90	13	75-90	10

Represent the marks of student of both the sections on the same graph by two frequency polygons. What do you observe?