Holiday Homework

Class: X   **Subject: Mathematics**

1. Determine the missing frequency x, from the following data, when mode is 67.

Class	40-50	50-60	60-70	70-80	80-90
Frequency	5	x	15	12	7

2. The average score of boys in the examination of a school is 71 and that of the girls is 73.The average score of the school in the examination is 71.8. Find the ratio of the number of boys to the number of girls who appeared in the examination.

3. For helping poor girls of their class, students saved pocket money as shown in the following table:

Money saved in (in rupees)	5-7	7-9	9-11	11-13	13-15
No. of students	6	3	9	5	7

Find mean and median for this data.

4. Find the median of the following data.

Class Interval	5-15	15-25	25-35	35-45	45-55	55-65	65-75
Frequency	1	2	3	4	5	6	7

5. Find the missing frequencies (f_1, f_2 and f_3) in the following frequency distribution when it is given that $f_2:f_3$ = 4:3 and mean = 50.

Class Interval	0-20	20-40	40-60	60-80	80-100	Total
Frequency	17	f_1	f_2	f_3	19	120

6. Draw 'less than type' ogive & 'more than type' ogive for the following distribution.

Class Interval	1000-1500	1500-2000	2000-2500	2500-3000	3000-3500	3500-4000
Frequency	18	22	25	15	11	9

7. If median height of 50 students of a class in the following frequency distribution is 144 cm, find the missing frequencies x and y.

Height (in cms)	125-130	130-135	135-140	140-145	145-150	150-155	155-160
No. of students	2	4	x	y	8	9	5

8. Find the mode of the following data:

Class Interval	5-15	15-25	25-35	35-45	45-55	55-65
Frequency	6	11	21	23	14	5

9. Find the mean, median and mode of the following data:

Class Interval	0-20	20-40	40-60	60-80	80-100	100-120	120-140
Frequency	6	8	10	12	6	5	3

10. Find the mean, mode and median of the following frequency distribution:

Class	Frequency
0-10	4
10-20	4
20-30	7
30-40	10
40-50	12
50-60	8
60-70	5