

1. Given in the table below are the marks obtained by 50 students in a class test:

Marks	1 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No. of Students:	4	7	19	12	8

From this data, the lower limit of median class is

- (A) 10 (B) 20 (C) 25 (D) 30

2. The number of patients attending a hospital in a month is given in the table below. Find the mean number of patients attending the hospital in a day.

Number of patients	Number of days attending hospital
0 – 10	2
10 – 20	6
20 – 30	9
30 – 40	7
40 – 50	4
50 – 60	2

3. If the median of the following distribution is 28.5, then find the values of x and y:

Class Interval	Frequency
0 – 10	5
10 – 20	x
20 – 30	20
30 – 40	15
40 – 50	y
50 – 60	5
Total	60

4. Find the mean of the following distribution:

Class:	3-5	5-7	7-9	9-11	11-13
Frequency:	5	10	10	7	8

5. Find the mode of the following data:

Class:	0-20	20-40	40-60	60-80	80-100	110-120	120-140
Frequency:	6	8	10	12	6	5	3

6. The following table gives production yield per hectare (in quintals) of wheat of 100 farms of a village:

Production yield/hect.	40-45	45-50	50-55	55-60	60-65	65-70
No. of farms	4	6	16	20	30	24

Change the distribution to 'a more than' type distribution and draw its ogive.

7. The median of the following data is 525. Find the values of x and y , if total frequency is 100:

Class :	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
Frequency:	2	5	x	12	17	20	y	9	7	4

8. Compute the mode for the following frequency distribution :

Size of items (in cm)	0 – 4	4 – 8	8 – 12	12 – 16	16 – 20	20 – 24	24 – 28
Frequency	5	7	9	17	12	10	6

9. The mean of the following frequency distribution is 18. The frequency f in the class interval 19 – 21 is missing. Determine f .

Class interval	11 – 13	13 – 15	15 – 17	17 – 19	19 – 21	21 – 23	23 – 25
Frequency	3	6	9	13	f	5	4

10. The following table gives production yield per hectare of wheat of 100 farms of a village :

Production yield	40-45	45-50	50-55	55-60	60-65	65-70
No. of farms	4	6	16	20	30	24

Change the distribution to a 'more than' type distribution and draw its ogive.

11. Find the value of p , if the mean of the following distribution is 7.5.

Classes	2-4	4-6	6-8	8-10	10-12	12-14
Frequency (f_i)	6	8	15	p	8	4

12. For the following frequency distribution, draw a cumulative frequency curve of 'more than' type and hence obtain the median value.

Classes	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	15	20	23	17	11	9

13. Using the empirical formula, find the mode of a distribution whose mean is 8.32 and the median is 8.05.
14. The mean and median of a distribution are 14 and 15 respectively. The value of mode is
 (A) 16 (B) 17 (C) 18 (D) 13
15. Find the mode of the following distribution:

Classes:	10 – 20	20 – 40	40 – 60	60 – 80	80 – 100
Frequency:	10	8	12	16	4

16. From the following distribution, find the median:

Classes:	500 – 600	600 – 700	700 – 800	800 – 900	900 – 1000
Frequency:	36	32	32	20	30

17. Draw a 'more than' cumulative frequency curve for the following distribution. Also, find the median from the graph.

Weight (in kg):	40 – 44	44 – 48	48 – 52	52 – 56	56 – 60	60 – 64	64 – 68
Number of Students:	7	12	33	47	20	11	5

18. Draw a 'less than ogive for the following distribution. Hence, find median from the graph.

Marks	Number of Students
0 – 10	2
10 – 20	8
20 – 30	12
30 – 40	10
40 – 50	16
50 – 60	8
60 – 70	3
70 – 80	1

19. Change the following distribution into 'less than' type distribution and draw its ogive. Hence find the median of the distribution.

Marks	Number of Students
20 – 30	4
30 – 40	10
40 – 50	12
50 – 60	14
60 – 70	8
70 – 80	3
80 – 90	4
90 – 100	5

20. In the formula $\bar{x} = a + \left(\frac{\sum f_i u_i}{\sum f_i} \right) \times h$, $u_i =$ _____.

21. Find the mode of the following distribution:

Marks:	0-10	10-20	20-30	30-40	40-50	50-60
Number of Students:	4	6	7	12	5	6

22. For the following data, draw a 'less than' ogive and hence find the median of the distribution.

Age (In years):	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Number of persons:	5	15	20	25	15	11	9

23. The distribution given below shows that the number of wickets taken by bowler in one-day cricket matches. Find the mean and the median of the number of wickets taken.

Number of wickets :	20-60	60-100	100-140	140-180	180-220	230-260
Number of bowlers :	7	5	16	12	2	3

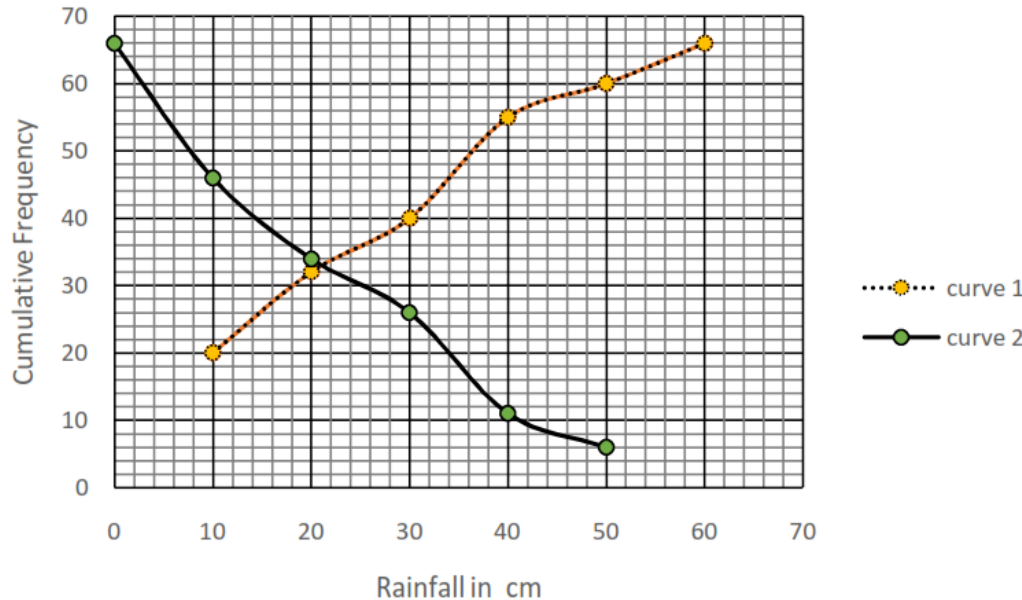
24. Consider the following frequency distribution of the heights of 60 students of a class

Height (in cm)	150-155	155-160	160-165	165-170	170-175	175-180
No of students	15	13	10	8	9	5

The upper limit of the median class in the given data is

- a) 165
- b) 155
- c) 160
- d) 170

25. A TV reporter was given a task to prepare a report on the rainfall of the city Dispur of India in a particular year. After collecting the data, he analyzed the data and prepared a report on the rainfall of the city. Using this report, he drew the following graph for a particular time period of 66 days



Based on the above graph, answer the following questions:

- Identify less than type ogive and more than type ogive from the given graph.
- Find the median rainfall of Dispur
- Obtain the Mode of the data if mean rainfall is 23.4cm

26. Daily wages of 110 workers, obtained in a survey, are tabulated below:

Daily Wages (in Rs.)	100-120	120-140	140-160	160-180	180-200	200-220	220-240
Number of Workers	10	15	20	22	18	12	13

Compute the mean daily wages and modal daily wages of these workers.