

Exercise-1

- Find the mean of 120, 110, 60, 90, 50 and 200.
- The salaries of 100 employees of a factory are given below.

Salary (in rupees)	1000	1500	2000	2500	3000
No of employees	24	40	28	5	3

Find the mean salary of the employees.

- The mean of 13, 15, 19, 23, x and 29 is 20. Find the value of x .
- Find the mean of the following data:

X_i	15	16	17	18	19	20	21
f_i	3	9	12	24	30	9	13

- Find the mean salary of 60 workers of a factory from the following data:

Salary (Rs)	5000	6000	7000	8000	9000	10000	
Number of workers	20	18	11	5	4	2	60

Exercise-2

- Find the median of the following data:
10, 13, 14, 6, 7, 11, 13, 18, 15, 8
- Find the median of the following data:
66, 69, 108, 75, 78, 83, 99, 100, 101, 102
- The following observations are arranged in ascending order of their values. If the median of the data is 48, find the value of 'p'
14, 27, 32, 35, P - 5, P + 7, 58, 65, 69, 76
- If the median of the data: 13, 18, 19, 20, x , $x+1$, 27, 31, 38 is 25, find x .
 - If the median of 22, 34, 39, 44, x , $x+2$, 58, 68, 74, 84 is 55, find x .
- The median of a data was found to be 75. It was later on discovered that by mistake one observation was taken as 25 instead of the correct value 52. Find the corrected median.

Exercise-3

- Find the mode of the following data: 5, 5, 16, 5, 18, 8, 7, 8, 5, 13, 12, 8, 5
- Find the mode of the following data:

X_i	15	20	25	30	35
f_i	32	28	53	44	55

- The marks obtained by 15 students in the mathematics test are given below.
41, 39, 48, 52, 46, 62, 54, 40, 96, 52, 98, 40, 42, 52, 60
Find the mean, median and mode of the above scores.
- Find the mode of the following data:

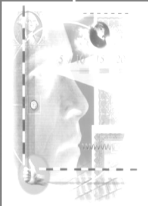
X_i	24	31	32	45	47	50	58
f_i	2	7	8	10	20	6	8

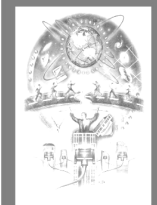
- Find the mode of the following data:

X_i	11	12	13	14	15	16	17	18
f_i	2	7	8	10	20	6	4	3

Worksheet

- Given below are the marks obtained by 30 students in a test.
25, 4, 27, 37, 6, 45, 19, 25, 8, 6, 12, 16, 9, 7, 2, 27, 20, 39, 1, 42, 30, 12, 27, 36, 34, 29, 35, 47
(i) By using the class intervals 1-10, 11-20 etc. construct a frequency table.





- (ii) State the range of these marks.
 (iii) State the class mark of the fourth class of the frequency table.
- 2 The marks obtained (out of 50) by 50 students in a test are given below.
 25,35,42,3,29,37,39,45,47,20,18,12,7,12,16,44,36,45,29,12,25,29,30,31,49,
 44,28.5, 15,17,18,28,46,20,32,47,26,27,20,4,29,7,17,45,42,32,19,27,48,4.
1. Taking class intervals 0-10, 10-20, construct a tally chart and a frequency distribution table.
 2. How many students scored less than 30 marks?
 3. State the class mark of fourth class.

- 3 Given below are the marks secured by 40 students in a test:
 42,40,30,28,27,12,00,2,9,45,44,28,20,21,4,6,3,19,25,27,20,26,49,44,12,17,2
 2,10,5,47,33,32,23,34,45,16,4,8,21,28
 Taking class intervals 0-10, 10-20 and 20-30, construct a frequency table as well as cumulative frequency distribution table. Find the number of students obtaining below 20 marks.

- 4 Draw a histogram to represent the following data.

Marks obtained	0-15	15-30	30-45	45-60	60-75	75-90
No of students	5	15	7	10	7	12

- 5 The water bills (in rupees) of 35 houses in a locality are given below:
 34,32,50,79,32,49,65,57,76,82,74,44,59,66,75,67,46,72,48,87,49,57,35,46,7
 0,30,76,54,47,73,67,54,80,49,80.
 Taking class intervals 30-40, 40-50 and 50-60 form a frequency distribution table. Construct a combined histogram and frequency polygon.

- 6 Find the mode of the following data:
 14,25,13,14,28,18,14,17,18,23,12,11,18,14
- 7 Find the mean of the following data: 25,27,19,29,23,23,11,40,33,15
1. Show that the sum of the difference of all the observations from the mean is zero.
 2. Find the median of the above data.

- 8 Find the mean of the following distributions:

X_i	10	15	20	25	30	35	40	Total
F_i	4	6	8	18	6	5	3	50

- 9 The demand of different sizes, as observed from the survey.

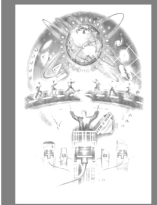
Size	38	39	40	41	42	43	44	Total
Number of persons (wearing it)	26	39	20	15	13	7	5	125

Find the model shirt sizes, as observed from the survey.

- 10 The following observations are arranged in the ascending order. If the median of the data is 57, find the value of 'x'.
 30,x,32,48,51,2x-3,62,72,78,84,91

- 11 If the mean of the following data is 20.5, find the value of 'p'.

X	10	15	20	25	30
f	6	10	P	10	8



- 12 The daily sale of flour of a flourmill is given below.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sale of flour (in kg)	120	110	70	80	40	210

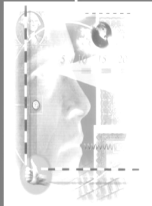
Determine the average daily sale of flour of the flourmill.

NCERT PARALLEL QUESTIONS

- The family size of seven families is as follows: 4,5,7,4,3,6,6
What is the mean size of the families?
- Find the mean of the first 20 natural numbers.
- Given below are the marks (out of 50) obtained by 30 students in an examinations. Find the mean marks of the students.

43	19	25	32	48
17	29	9	15	50
7	24	20	37	44
22	2	50	27	25
18	42	16	1	33
25	35	45	35	28

- The number of trees in ten societies is as follow:
17,19,21,16,15,18,20,22,24,23
Find the average number of trees.
- The weights (in cm) of 11 students of a class are as follows.
45,47,48,43,44,45,50,49,50,43,42
Find the median.
- Find the median of the following data.
2,7,3,15,12,17,5
- The marks obtained by a few students are as follows.
81,62,67,64,89,92,43,72,75,49,52
Find the median of the marks.
- Number of toffees in 9 different packets is given below.
57,62,59,49,52,70,69,67,63
Find the median.
- The number of computers in 12 families of a locality is as follows.
1,1,2,3,2,1,4,3,2,2,1,1
Find the mode of the given data.
- The marks obtained by 10 students in a test are as follows:
48,59,63,72,48,72,48,98,90,60
Find the mode.
- Find mean, median and mode of the following data.
0,5,2,7,2,1,1,3,2,4,5,7,5,1,2
- The monthly income of 5 families is as follows:
10,000, 15,000, 10,000, 10,000, 25,000
Find mean, median and mode of the given data.
- The marks (in percent) scored by 10 pupils of a class in a test are.
36,80,75,75,94,48,12,64,88,98



Find mean, median and mode of the above data.

- 14 Find mean of the following data.
8,8,8,8,8,8,8,8
- 15 Find mean, median and mode of the following data.
2,4,5,7,17,12,6,4,3
- 16 Find mean and median of the following data.
10,15,17,19,20 and 21
- 17 If mean of the following data is 15, find the value of x.
10,16,19,x,15,13,12
- 18 If median of the following data is 7, find the value of x.
2,3,x,x+2,12,15,17
- 19 Find median of the following data.
14,16,20,12,13,4,5,7,29,32,6
- 20 The marks (out of 20) obtained by 15 students are given below.
11,12,9,7,16,11,2,11,16,7,9,11,7,18,16
Find mode of the given data.

- 21 The salaries of 100 workers of a factory are given below.

Salary (in rupees)	6000	8000	10000	12000	15000	20000	25000	
Number of workers	40	25	12	10	8	4	1	100

Find the mean salary of the workers.

- 22 Find the mean of the following data.

Percentage of marks	10	30	50	70	90
No of studetns	2	12	13	15	8

- 23 The weights of 40 students in a class are given below. Find the mean weight.

Weight (in kg)	45	46	47	48	49	50	51	52	53
No of students	6	2	3	4	7	4	7	4	3

- 24 If the mean of the following data is 4.75, find the missing frequency.

X_i	4	8	3	6
frequency	10	2	3	?