

STATISTICS
EXTRA QUESTION

1. Find the mean of the following data: 153, 140, 148, 150, 154, 142, 146, 147
2. The mean of the following data is 37. Find x
28, 35, 25, 32, x, 40, 45, 50
3. The mean of 20 observations is 25. If each observation is multiplied by 2, then find the mean of new observations.
4. The means of two groups of 15 and 20 observations are 20 and 25 respectively. Find the mean of all the 35 observations.
5. If the mode of the following data is 14, find the value of x
10, 12, 14, 15, 16, 14, 15, 14, 15, x, 16, 14, 16
6. The median of the observations, arranged in increasing order is 26. Find the value of x.
10, 17, 22, x + 2, x + 4, 30, 36, 40
7. Find the mode of 14, 25, 14, 28, 18, 17, 18, 14, 23, 22, 14, 18.
8. In a mathematics test given to 15 students, the following marks (out of 100) are recorded:
41, 39, 48, 52, 46, 62, 54, 40, 96, 52, 98, 40, 42, 52, 60
Find the mean, median and mode of this data.
9. Find the mean salary of 60 workers of a factory from the following table:

Salary (Rs)	Number of workers
3000	16
4000	12
5000	10
6000	8
7000	6
8000	4
9000	3
10000	1
Total	60

10. The following observations have been arranged in ascending order as 29, 32, 48, 50, x, x + 2, 72, 78, 84, 95. If the median of the data is 63, find the value of x.
11. The mean of 13 observations is 14. If the mean of the first 7 observations is 12 and that of last 7 observation is 16, find the 7th observation.
12. The average monthly salary of 15 workers in a factory is Rs. 285. If the salary of the manager is included, the average becomes Rs. 355. What is the manager's salary?
13. For what value of x, is the mode of the following data is 17?
15, 16, 17, 14, 17, 16, 13, x, 17, 16, 15, 15
14. Find the median of first sixteen odd numbers.
15. Find the median of first ten prime numbers.
16. A school has two sections. The mean mark of one section of size 40 is 60 and mean mark of other section of size 60 is 80. Find the combined mean of all the students of the school.
17. The median of the following observations arranged in ascending order 8, 9, 12, 18, (x + 2), (x + 4), 30, 31, 34, 39 is 24. Find x.
18. The mean weight of 180 students in a school is 50kg. The mean weight of boys is 60kg while that of the girls is 45kg. Find the number of the boys and girls in the school.
19. If the mean of $2x + 3$, $3x + 4$, $x + 7$, $x - 3$, $4x - 7$ is 14. Find the value of x.
20. In a school 90 boys and 30 girls appeared in a public examination. The mean marks of boys were found to be 45% whereas the mean marks of girls were 70%. Determine the average marks % of the school.
21. The marks secured by 15 students are 70, 55, 95, 62, 82, 65, 60, 68, 75, 58, 64, 85, 80, 90, 51.
Find the median marks.
22. The mean of 25 observations is 36. If the mean of the first 13 observations is 32 and that of the last 13 observations is 39, find the 13th observation.
23. Find the median of the following data: 33, 31, 48, 45, 41, 92, 78, 51, and 61. If 92 is replaced by 29, what will be the new median?