

Bhavan's V.M. Public School, Baroda
Ch-14 Statistics

1. What is the class mark of the class 130-150 .
2. For a frequency distribution, the mid value of the class is 150 and the width of class is 20. Find the lower limit of the class.
3. In the class interval 150- 200, 200- 250, in which interval the number 200 included?
4. What is the range of the given data: 22, 25, 20, 32, 36, 28, 40, 45, 35, 38.
5. What is the median of the given data: 78, 56, 22, 34, 45, 54, 39, 68, 54, 84.
6. What is the arithmetic mean of first five prime numbers.
7. 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 median and mode of this data.
8. The given observations have been arranged in ascending order. If median of the data is 63, then find the value of 'x'. 29, 32, 48, 50, x, x+2, 72, 78, 84, 95
9. Find the mean of the following data.

Mark	20	40	50	80	89
Frequency	10	15	10	8	7

10. Draw the frequency polygon of the following observations.

Cost of living index)	140-150	150-160	160-170	170-180	180-190	190-200	total
No. of weeks	5	10	20	9	6	2	52

11. Draw a histogram and frequency polygon for the following data:

Weight (in kg)	40-44	45-49	50-54	55-59	60-64	65-69
No. of students	2	8	12	10	6	4

12. The mean of 25 observations is 36. Out of these observations if the mean of first 13 observations is 32 and that of last 13 observations is 40. What is the 13th observation?
13. The mean of five numbers is 15. If one number is excluded, their mean remains 15. What is the excluded number.
14. If the mean of the observations $x, 2x+1, 2x+5, 2x+9$ is 30. What is the value of x ?
15. Mean of 50 observations was found to be 80.4 . But later on ,it was discovered that 96 was misread 69 at one place. Find the correct mean.
16. The given observations are arranged in increasing order: 17, 19, 20, 24, $x, x + 2, 28, 31, 34, 36$. If the median of the observations is 26, find the value of x . If each observation is increased by 2, what is the new median?
17. A class consists of 50 students out of which 30 are girls. The mean marks obtained by girls in the test is 73 and that of the boys is 71. Determine the mean score of the whole class.
18. The marks obtained by 80 students are given. Construct a histogram for the following data.

Mark	10-20	20-30	30-50	50-70	70-100
Frequency	6	17	15	16	26

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