

WORKSHEET

CLASS : X

CHAPTER: STATISTICS

- 1.The empirical relationship between the three measures of central tendency is.....
2. Is called a positional average.
3. The point of intersection of the less than ogive and the more than ogive gives us the
- 4.The point of intersection of the less than ogive and the more than ogive is (36.5,15).The median is.....
- 5.The median and the mode of a data are 62 and 64 respectively. The mean is.....
6. The median and the mean of a data are 52 and 50 respectively. The mode is.....
7. The mean and the mode of a data are 54 and 57 respectively. The median is.....
- 8.Change the following data to a frequency distribution table:

Less than 10	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60	Less than 70	Less than 80
7	16	23	32	42	53	60	75

9. Change the following data to a frequency distribution table:

0 and above	10 and above	20 and above	30 and above	40 and above	50 and above	60 and above	70 and above
100	92	87	75	52	28	16	4

10. The mean of the following data is 38.2. Find the missing frequencies f_1 and f_2 if the total frequency is 50.

Classes	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	4	4	F_1	10	F_2	8	5

(Ans. $F_1 = 7, f_2 = 12$)

- 11.The mean of the following frequency is 8. Find the value of p .

X(variable)	3	5	7	9	11	13
F(frequency)	6	8	15	p	8	4

(Ans $p = 25$)

12. Draw the less than ogive and decide the median.

Classes	50-60	60-70	70-80	80-90	90-100
Frequency	3	5	9	12	6

(Ans 82 approx)

13. Find the unknown values a,b,c,d,e & f from the following table:

Height(in cm)	No. of boys	Cumulative Frequency
150-155	12	A
155-160	b	25
160-165	10	C
165-170	d	43
170-175	e	48
175-180	2	F
Total	50	

14. The median of the following data is 20.75 . Find x & y if the total frequency is 100.

Classes	0-5	5- 10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	7	10	X	13	y	10	14	9

(Ans. X= 17, y = 20)

15. The median of the following data is 525. Find f1 & f2 if the total frequency is 100.

Classes	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
Frequency	2	5	F1	12	17	20	Y	9	7	4

(Ans: f1 = 9, f2=15).

16. Find the mean, median and the mode of the following data.

Monthly consumption (in units)	65-85	85-105	105-125	125-145	145-165	165-185	185-205
No. of Families	4	5	13	20	14	8	4

(Median=137, Mean 137.05, Mode 135.76)

17. Find the median of the following data.

Classes	118-126	127-135	136-144	145-153	154-162	163-171	172-180
Frequency	3	5	9	12	5	4	2

(Ans: 146.75. **Hint: Make the classes continuous.**)

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