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CBSE 10th Statistics

Unsolved Paper

- Q.1. Find the mean, median and mode of the following data: Classes: 0-20 20-40 40-60 60-80 80-100 100-120 120-140 Frequency: 6, 8 10, 12, 6, 5, 3**
- Q.2. 100 surnames were randomly picked up from a local telephone directly and the frequency distribution of the number of letters in the English alphabets in the surnames was obtained as follows: Number of letters: 1-4 4-7 7-10 10-13 13-16 16-19 Number surnames: 6, 30, 40, 16, 4, 4 Determine the median number of letters in the surnames. Find the mean number of letters in the surnames. Also, find the modal size of the surnames.**
- Q.3. The following data gives the distribution of total monthly household expenditure of 200 families of a village. Find the modal monthly expenditure of the families. Also, find the mean monthly expenditure:**
- Q.4. The following data gives the information on the observed lifetimes (in hours) of 225 electrical components:**
- Lifetimes (in hours): 0-20 20-40 40-60 60-80 80-100 100-120 No. of components: 10, 35, 52, 61, 38, 29**
- Determine the modal lifetimes of the components.**
- Q.5. The following table shows the ages of the patients admitted in a hospital during a year: Age (in years): 5-15 15-25 25-35 35-45 45-55 55-65. No. of students: 6, 11, 21, 23, 14 and 5 Find the mode and the mean of the data given above. Compare and interpret the two measures of central tendency.**
- Q.6. The shirt sizes worn by a group of 200 persons, who bought the shirt from a store, are as follows: Shirt size: 37, 38, 39, 40, 41, 42, 43, 44 Number of persons: 15, 25, 39, 41, 36, 17, 15, 12 Find the model shirt size worn by the group.**

Q.7. The following table gives the distribution of the life time of 400 neon lamps:

Lite time: (in hours)	Number of lamps
2000-2500	56
2500-3000	60
3000-3500	86
3500-4000	74
4000-4500	62
4500-5000	48

Find the median life.

Q.8. If the median of the following data is 32.5, find the missing frequencies.

Class interval: 0- 10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70 Total Frequency: f_1 , 5, 9, 12, f_2 , 3, 2, 40

Q.9. If the median of the following frequency distribution is 28.5 find the missing frequencies: Class interval: 0-10 10-20 20-30 30-40 40-50 50-60 Total Frequency: 5, f_1 , 20, 15, f_2 , 5, 60

Class Interval	Frequency	Cumulative frequency
0-10	5	5
10-20	f_1	$5+f_1(F)$
20-30	20(F)	$25+F_1$
30-40	15	$40+f_1$
40-50	f_2	$40+f_1 + f_2$
50-60	5	$45+f_1 + f_2$
	N = 60	

Q.10. Calculate the median from the following data:

Rent (in Rs.): 15-25 25-35 35-45 45-55 55-65 65-75 75-85 85-95
No. of Houses: 8 10 15 25 40 20 15 7

Q.11. An incomplete distribution is given as follows:

Variable:	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
Frequency:	10	20	?	40	?	25	15

You are given that the median value is 35 and the sum of all the frequencies is 170.
Using the median formula, fill up the missing frequencies.

Q.12. Find the missing frequencies and the median for the following distribution if the mean is 1.46.

No. of accidents:	0	1	2	3	4	5	total
Frequency (No. of days):	46	?	?	25	10	5	200

Q.13. Calculate the median from the following data:

Rent (in Rs.):	15-25	25-35	35-45	45-55	55-65	65-75	75-85	85-95
No. of Houses:	8	10	15	25	40	20	15	7

Q.14. An incomplete distribution is given as follows:

Variable:	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
Frequency:	10	20	?	40	?	25	15

You are given that the median value is 35 and the sum of all the frequencies is 170.
Using the median formula, fill up the missing frequencies.

Q.15. Find the missing frequencies and the median for the following distribution if the mean is 1.46.

No. of accidents:	0	1	2	3	4	5	total
Frequency (No. of days):	46	?	?	25	10	5	200

Q.16. If the mean of the following data is 15, find p.

x:	5	10	15	20	25
f:	6	p	6	10	5

17. If the mean of the following data is 20.6. Find the value of p

x:	10	15	15	25	35
f:	3	10	25	7	5

18. Find the mean of the following data:

x:	19	21	23	25	27	29	31
f:	13	15	16	18	16	15	13

Q.19. Find the missing value of p for the following distribution whose mean is 12.5

x:	5	8	10	12	p	20	25
f:	2	5	8	22	7	4	2

Q.20. Find the value of p, if the mean of the following distribution is 20.

x:	15	17	19	20+p	23
f:	2	3	4	5P	6

Q.21. Find the missing frequencies in the following frequency distribution if it is known that the mean of the distribution is 50.

x:	10	30	50	70	90
f:	17	f_1	32	f_2	19
Total 120.					

Q.22. The arithmetic mean of the following data is 25, find the value of k

x_1:	5	15	25	35	45
f_1:	3	k	3	6	2

Q.23. If the mean of the following data is 18.75. Find the value of p.

x_1 :	10	15	p	25	30
f_1 :	5	10	7	8	2

Q.24. The number of telephone calls received at an exchange per interval for 250 successive one minute intervals are given in the following frequency table:

No. of calls(x):	0	1	2	3	4	5	6	
No. of intervals (f):		15	24	29	46	54	43	39

Compute the mean number of calls per interval.

Q.25. The following table gives the number of branches and number of plants in the garden of a school.

No. of calls(x):	2	3	4	5	6
No. of intervals (f):	49	43	57	38	13

Calculate the average number of branches per plant.

Q.26. The following table gives the number of children of 150 families in a village

No. of children (x):	0	1	2	3	4	5
No. of families (f):	10	21	55	42	15	7

Find the average number of children per family.

Q.27. The marks obtained out of 50, by 102 students in a Physics test are given in the frequency table below:

Marks(x):	15	20	22	24	30	33	38	45
Frequency (f):	5	8	11	20	23	18	13	1

Find the average number of marks.

Q.28. The following distribution gives the number of accidents met by 160 workers in a factory during a month

No. of accidents (x):	2	3	4	5	6
No. of workers (f):	49	43	57	38	13

Find the average number of accidents per worker.

Q.29. The following table gives the distribution of total household expenditure (in rupees) of manual workers in a city

Expenditure (in rupees) (x)	Frequency (f_i)	Expenditure (in rupees) (x_i)	Frequency (f_i)
100 – 150	24	300 – 350	30
150 – 200	40	350 – 400	22
200 – 250	33	400 – 450	16
250 – 300	28	450 – 500	7

Find the average expenditure (in rupees) per household.

Q.30. Class interval:		0 - 6	6 - 12	12 - 18	18 - 24	24-30
Frequency		6	8	10	9	7

Q.31. Class interval:		0 - 6	6 - 12	12 - 18	18 - 24	24-30
Frequency		7	5	10	12	6

Q.32. Class interval:		25-35	35-45	45-55	55-65	65-75
Frequency		6	10	8	12	4

Q.33. The blood groups of 30 students of Class VIII are recoded as follows:

A, B, O, O, AB, O, A, O, B, A, O, B, A, O, O,

A, AB, O, A, A, O, O, AB, B, A, O, B, A, B, O.

Represent this data in the form of a frequency distribution table. Which is the most common, and which is the rarest, blood group among these students?

Q.34. The following number of goals was scored by a team in a series of 10 matches:

2, 3, 4, 5, 0, 1, 3, 3, 4, 3

Find the mean, median and mode of these scores.

Q.35. The following observations have been arranged in ascending order. If the median of the data is 63, find the value of x.

29, 32, 48, 50, x, x + 2, 72, 78, 84, 95

Q.36. Find the mode of 14, 25, 14, 28, 18, 17, 18, 14, 23, 22, 14, 18.

Q.37. Find the mean salary of 60 workers of a factory from the following table:

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

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