CBSE NCERT Based Chapter wise Questions (2025-2026)

Class-X

Subject: Mathematics

Total : 6 Marks (expected) [MCQ(1)-1 Mark, LA(1)-5 Marks]

Chapter Name : *Statistics* (Chap : 13)

Level - 2 (Higher Order)

MCQ Type :

1. If the mean of first n natural numbers is $\frac{5n}{9}$, then n = ?

Ⓐ 6 Ⓑ 7 Ⓒ 9 Ⓓ 10

2. If 35 is removed from the data, 30, 34, 35, 36, 37, 38, 39, 40 then the median increases by:

Ⓐ 2 Ⓑ 1.5 Ⓒ 1 Ⓓ 0.5

3. The mean of the first 10 multiples of 6 is

Ⓐ 3.3 Ⓑ 33 Ⓒ 34 Ⓓ none of these

4. The median of set of 9 distinct observations is 20.5. If each of the largest 4 observations of the set is increased by 2, then the median of the new set

Ⓐ is increased by 2 Ⓑ is decreased by 2

Ⓒ is two times of the original number Ⓓ remains the same as that of the original set

5. If the mode of some observations is 10 and sum of mean and median is 25, then the mean and median respectively are

Ⓐ 12 and 13 Ⓑ 10 and 15 Ⓒ 13 and 12 Ⓓ 15 and 10

6. If the maximum number of students has obtained 52 marks out of 80, then

Ⓐ 52 is the mean of the data Ⓑ 52 is the median of the data

Ⓒ 52 is the mode of the data Ⓓ 52 is the range of the data

7. For the following distribution.

Class	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25
Frequency	10	15	12	20	9

The sum of the lower limits of the median and modal class is

Ⓐ 15 Ⓑ 25 Ⓒ 30 Ⓓ 35

LA Type:

8. Consider the following distribution of daily wages of 50 workers of a factory.

Daily Wages (in ₹)	100 – 120	120 – 140	140 – 160	160 – 180	180 – 200
Number of Workers	12	14	8	6	10

Find the mean daily wages of the workers of the factory by using an appropriate method.

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9. The following data gives the distribution of the total monthly household expenditure of 200 families of a village. Find the modal monthly expenditure of the families. Also, find the mean monthly expenditure:

Expenditure (in ₹)	Number of families
1000-1500	24
1500-2000	40
2000-2500	33
2500-3000	28
3000-3500	30
3500-4000	22
4000-4500	16
4500-5000	7

10. A survey regarding the heights (in cm) of 51 girls of class X of a school was conducted and the following data were obtained:

Height (in cm)	Number of girls
Less than 140	4
Less than 145	11
Less than 150	29
Less than 155	40
Less than 160	46
Less than 165	51

Find the median height.

11. In a retail market, fruit vendor were selling mangoes in packing boxes. These boxes contained varying number of mangoes. The following was the distribution:

No. of mangoes	50 – 52	53 – 55	56 – 58	59 – 61	62 – 64
No. of boxes	15	110	135	115	25

Find the mean and median number of mangoes kept in a packing box.

12. Find the missing frequencies (f_1, f_2 and f_3) in the following frequency distribution when it is given that $f_2 : f_3 = 4 : 3$ and mean = 50.

Class Interval	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100	Total
Frequency	17	f_1	f_2	f_3	19	120

13. Literacy rats of 40 cities is given in the following table. If it is given that mean literacy rate is 63.5, then find the missing frequencies x and y.

Literacy rate	35 – 40	40 – 45	45 – 50	50 – 55	55 – 60	60 – 65	65 – 70	70 – 75	75 – 80	80 – 85	85 – 90
No. of cities	1	2	3	x	y	6	8	4	2	3	2

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ANSWER

1. Ⓒ
2. Ⓓ
3. Ⓑ
4. Ⓓ
5. Ⓒ
6. Ⓒ
7. Ⓑ
8. ₹145.20
9. ₹1847.83, ₹2662.50
10. 149.03 cm
11. 57.18, 57.16
12. 28, 32, 24
13. x = 5, y = 4

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