



ACADEMIC YEAR 2022-23

Grade: X

Subject: MATHEMATICS

CH – 14 - STATISTICS - ASSIGNMENT -2

1 Consider the following distribution:

Marks	Above 0	Above 10	Above 20	Above 30	Above 40	Above 50
No. of Students	63	58	55	51	48	42

The frequency of the class 30 – 40 is

- (a) 3 (b) 4 (c) 48 (d) 41

2 If the mean of the following frequency distribution is 54, then the value of p is

C.I	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100
F	7	p	10	9	13

- (a) 12 (b) 16 (c) 18 (d) 11

3. The mean and median of same data are 24 and 26. Find its mode.

4. Find the missing frequency f if the mode of the given data is 154.

Classes	120 – 130	130 – 140	140 – 150	150 – 160	160 – 170	170 – 180
Frequency	2	8	12	F	8	7

5. Compute median for the following data

Classes	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60	Less than 70	Less than 80	Less than 90	Less than 100
Cumulative Frequency	0	4	16	30	46	66	82	92	100

6. The median of the distribution given below is 14.4 . Find the values of x and y. The sum of its frequency is 20.

Class Interval	0 – 6	6 – 12	12 – 18	18 – 24	24 – 30
Frequency	4	x	5	y	1

7 Find the median marks from the following data:

Marks	Below 10	Below 20	Below 30	Below 40	Below 50
Number of students	15	45	90	102	120
