

Tender Heart High School, Sector 33B, Chd

Class : 9th

Date : 27.1.2025

Subject : Mathematics

Teacher : Ms. Reena

Revision

Chapter -16 Frequency Polygon

Ques1:- Draw a histogram to represent the following data:-

Marks obtained	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	4	10	6	8	5	9

Ques.2:- Draw a histogram to represent the following frequency distribution of weekly wages of 255 workers of a factory.

Weekly wages	850-950	950-1050	1050-1150
No. of workers	35	45	75
		1150-1250	1250-1350
		60	40

Ques3:- Draw a histogram for the following data:-

Classes	59-65	66-72	73-79	80-86	87-93
Frequency	10	5	25	15	30
				94-100	
				10	

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Ques 4:- Draw a frequency polygon for the following data:-

Class intervals	40-50	50-60	60-70	70-80	80-90
Frequency	15	28	45	32	41

Ques 5:- In a class of 90 students, the marks obtained in a weekly test were as under:-

Marks	16-20	21-25	26-30	31-35
No. of students	4	12	18	26

Construct a frequency Polygon.

36-40	41-45	46-50
14	10	6

Ques. 6:- Construct a combined histogram and frequency polygon for the following data:-

Weekly earnings	150-165	165-180	180-195
No. of workers	8	14	22

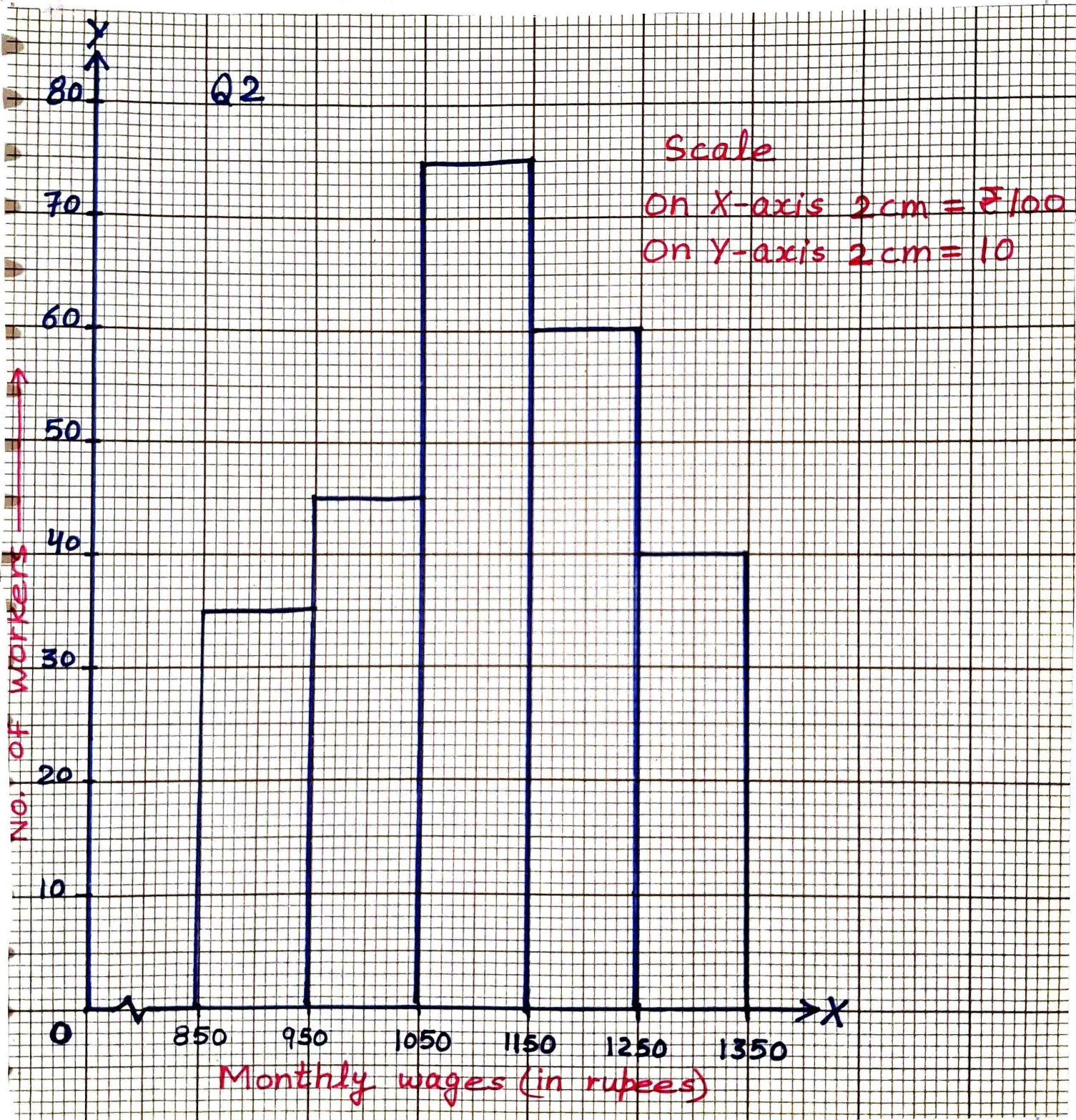
195-210	210-225	225-240
12	15	6

Ques. 7:- The water bills (in rupees) of 32 houses in a locality are given below:-

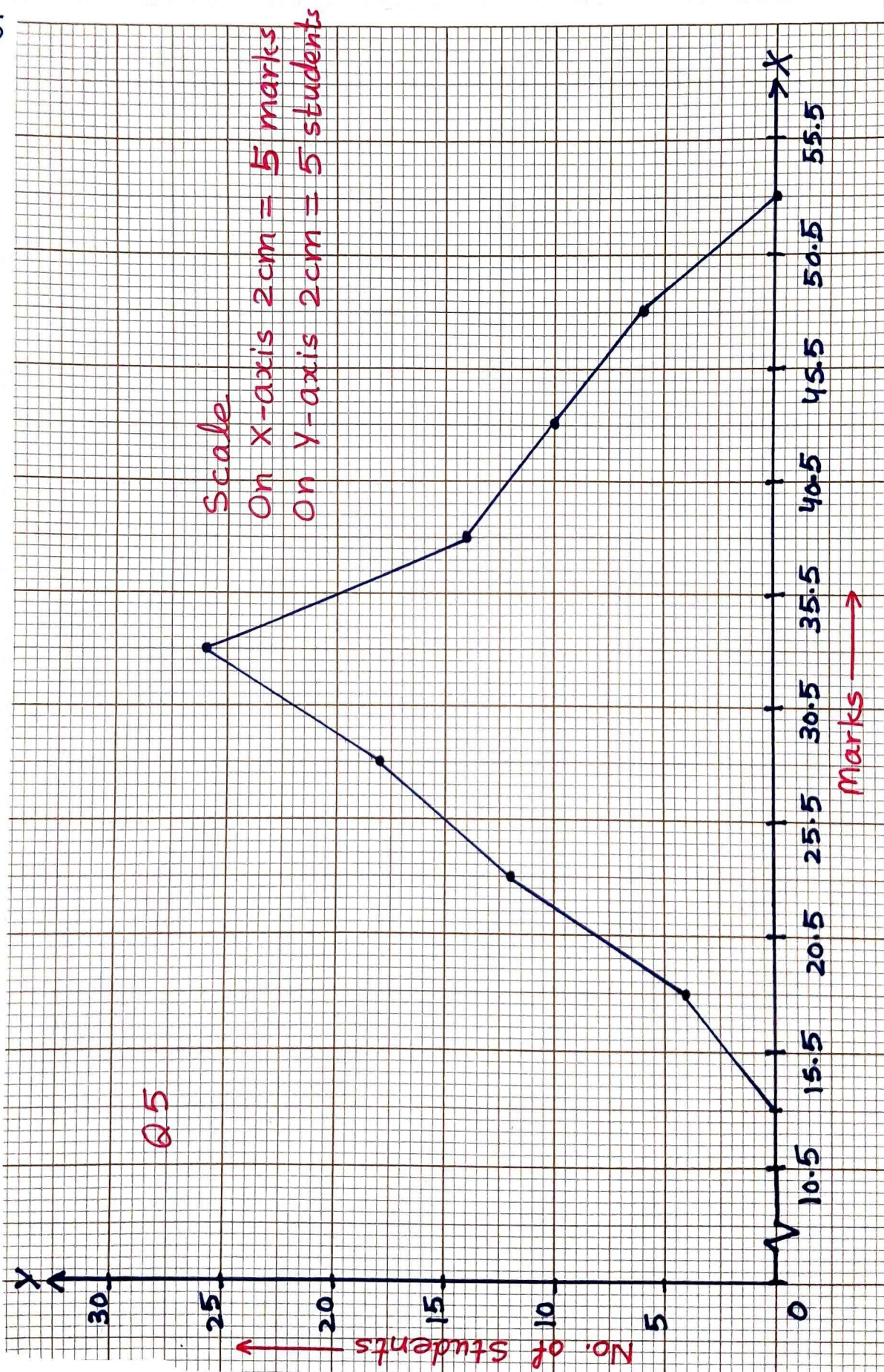
30, 48, 52, 78, 103, 85, 37, 94, 72, 73, 66, 52, 92, 65, 78, 81, 64, 60, 75, 78, 108, 63, 71, 54, 59, 75, 100, 103, 35, 89, 95, 73.

Taking class intervals 30-40, 40-50, 50-60, ---, from frequency distribution table. Construct a combined histogram and frequency polygon.

Solution of Revision

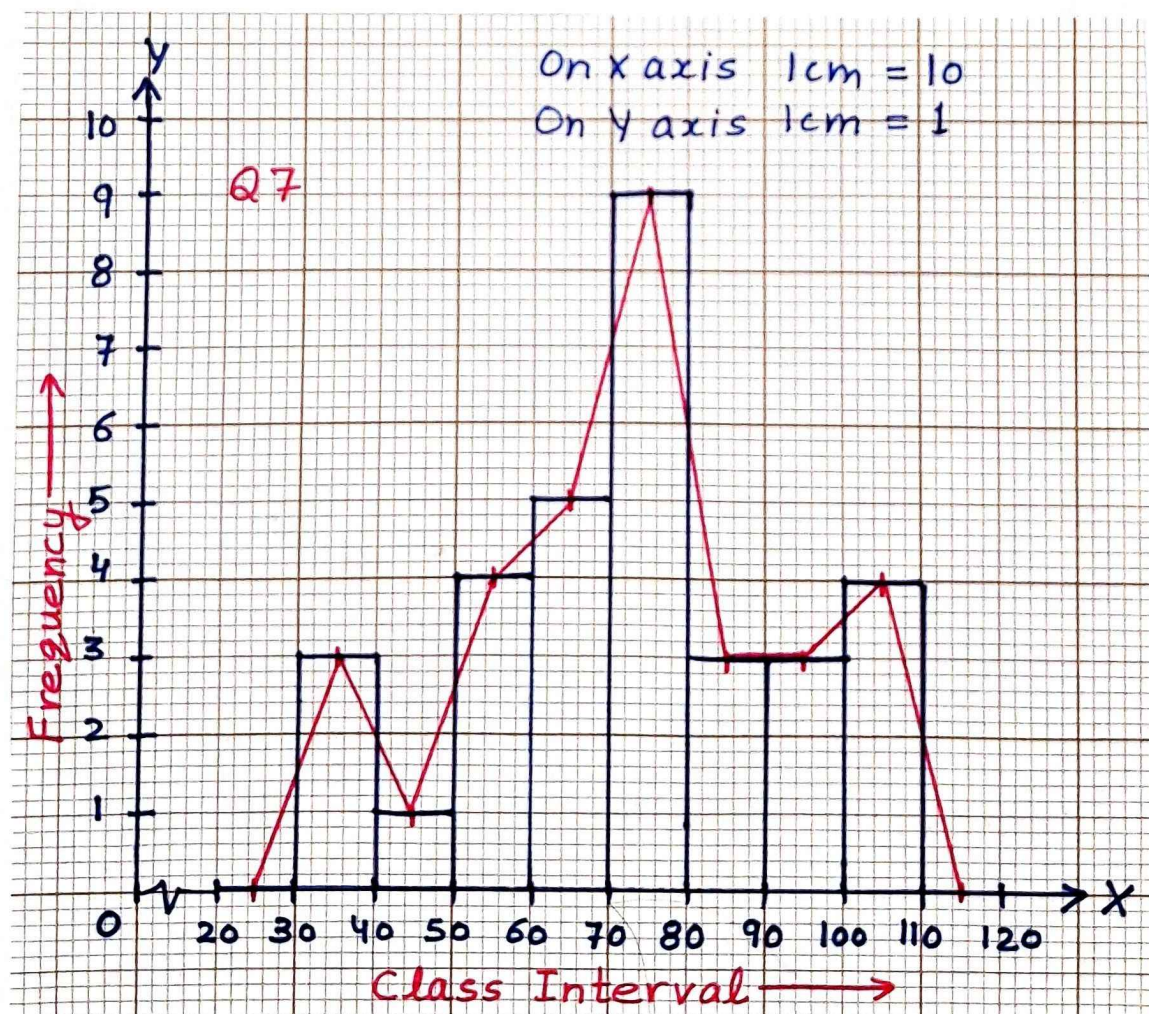


Q5



Sol 7:-

Class Intervals	Tally Marks	Frequency
30-40	III	3
40-50	I	1
50-60	IIII	4
60-70	IIII	5
70-80	IIII IIII	9
80-90	III	3
90-100	III	3
100-110	IIII	4



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Revision

Mean and Median

Ques.1:- Find the median of the following data:-

5, 3, 12, 0, 7, 11, 4, 3, 8

[Ans. 5]

Ques.2:- The number of goals scored by a football team in a series of matches are:-

3, 1, 0, 7, 5, 3, 3, 4, 1, 2, 0, 2 Find median.

[Ans. 2.5]

Ques.3:- If the numbers 3, 6, 7, 10, x , 15, 19, 20, 25, 28 are in ascending order and their median is 13, calculate the value of x .

[Ans. 11]

Ques.4:- Find the mean of the first twelve natural numbers.

[Ans. 6.5]

Ques.5:- The mean of 8 variates is 10.5. If seven of them are 3, 15, 7, 19, 2, 17 and 8, then find the 8th variate.

[Ans. 13]

Ques.6:- Calculate the mean and the median of the numbers:- 2, 3, 4, 3, 0, 5, 1, 1, 3, 2

[Ans. 2.4
2.5]

Ques.7:- In a Science test given to a group of students, the marks scored by them are:-

41, 39, 52, 48, 54, 62, 46, 52, 40, 96, 42, 40, 98, 60, 52 Find mean and median.

[Ans. 54.8, 52]

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Ques.8:- Using class intervals 0-4, 5-9, 10-14, ... construct the frequency distribution for the following data :- 12, 20, 21, 18, 1, 8, 12, 18, 13, 6, 10, 5, 11, 14, 2, 8, 15, 16, 9, 13, 17, 11, 19, 5, 7

Ques.9:- The marks obtained (out of 50) by 40 students in a test are given below :-

28, 31, 45, 3, 5, 18, 35, 46, 49, 17, 10, 28, 31, 36, 40, 44, 47, 13, 19, 25, 24, 31, 38, 32, 27, 19, 25, 28, 48, 15, 18, 31, 37, 46, 06, 01, 20, 10, 45, 02

- (i) Taking class intervals 1-10, 11-20, ---, construct a tally chart and a frequency distribution table.
- (ii) Convert the above distribution to continuous distribution.
- (iii) State the true class limits of the third class.
- (iv) State the class mark of the fourth class.

Ques.10:- Given below are the marks secured by 35 students in a test :-

41, 32, 35, 21, 11, 47, 42, 0, 5, 18, 25, 24, 29, 38, 30, 4, 14, 24, 34, 44, 48, 33, 36, 38, 41, 46, 8, 34, 39, 11, 13, 27, 26, 43, 3

Taking class intervals 0-10, 10-20, 20-30, --- construct frequency as well as cumulative frequency distribution table. Find the number of students obtaining below 20 marks.