



Exercise 14G

Question 10:

Arrange the terms in an ascending order, we have

Marks	9	20	25	40	50	80
No. of students	4	6	16	8	7	2

Now preparing the cumulative frequency , we have

Marks	No of students(Frequency)	Cumulative Frequency
9	4	4
20	6	10
25	16	26
40	8	34
50	7	41
80	2	43

Here, number of students =43, which is odd

$$\text{median} = \left(\frac{n+1}{2} \right) \text{nd term}$$

$$= \left(\frac{43+1}{2} \right) \text{nd term}$$

$$= 22 \text{nd term}$$

$$= \text{marks of } 22^{\text{nd}} \text{ student}$$

But the above table shows that each one of the students from 11th to 26th gets 25 marks.

So the 22nd student gets 25 marks

\therefore median of marks = 25

***** END *****