

Exercise 14G

Question 9: Arrange the terms in an ascending order, we have

Variate	15	17	20	22	25	30
Frequency	3	5	9	4	6	10

Now preparing the cumulative frequency, we have

1			
	Variate	Frequency	Cumulative Frequency
	15	3	3
	17	5	8
	20	9	17
	22	4	21
	25	6	27
	30	10	37

Here n = 37, which is odd

∴ median =
$$\left(\frac{n+1}{2}\right)$$
th term
= $\left(\frac{37+1}{2}\right)$ th term
= 19th term

=frequency of the 19th variate
But the above table shows that the frequency of variates from 18th term to 21st term is 22
So the frequency of 19th term will be 22
∴ Median = 22

********* END *******