

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

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

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*