



Exercise 14G

Question 12:

Arrange the terms in an ascending order, we have

Variate	Frequency	Cumulative Frequency
16	9	9
18	8	17
20	13	30
23	4	34
25	4	38
26	6	44
28	11	55
30	5	60

Here, $n = 60$, which is even.

$$\begin{aligned}
 \therefore \text{median} &= \frac{1}{2} \left[\left(\frac{n}{2} \right) \text{th term} + \left(\frac{n}{2} + 1 \right) \text{th term} \right] \\
 &= \frac{1}{2} [(30\text{th term} + 31\text{th term})] [\because n = 60] \\
 &= \frac{1}{2} (20 + 23) \\
 &= \left(\frac{1}{2} \times 43 \right) \\
 &= 21.5 \\
 \therefore \text{median} &= 21.5
 \end{aligned}$$

***** END *****