

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...

$$\therefore \text{ median} = \frac{1}{2} \left[ \left( \frac{n}{2} \right) \text{th term} + \left( \frac{n}{2} + 1 \right) \text{th term} \right]$$

$$= \frac{1}{2} \left[ \left( 30 \text{th term} + 31 \text{th term} \right) \right] \left[ \because n = 60 \right]$$

$$= \frac{1}{2} \left( 20 + 23 \right)$$

$$= \left( \frac{1}{2} \times 43 \right)$$

$$= 21.5$$

:. median =21.5

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