

Exercise 14G

Question 11: Arranging the terms in an ascending order, we have

Height (in cm)	No of students Frequency	Cumulative Frequency
151	6	6
152	3	9
153	12	21
154	4	25
155	10	35
156	8	43
157	7	50

Here , n=50 , which is even

median = 
$$\frac{1}{2} \left[ \left( \frac{n}{2} \right) \right]$$
 thterm +  $\left( \frac{n}{2} + 1 \right)$  th term 
$$= \frac{1}{2} \left[ (25\text{th term} + 26\text{th term}) \right] [\because n = 50]$$

$$= \left( \frac{154 + 155}{2} \right)$$

$$= \frac{309}{2}$$

$$= 154.5$$

.. median height =154.5 cm

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