

Exercise 14G

Question 1:

(i) Arranging the data in accending order, we have 2,2,3, 5, 7, 9, 9, 10, 11 Here n = 9, which is odd

> median =  $\frac{1}{2}$ (n+1)th term =  $\frac{(9+1)}{2}$ th term = value of the 5th term = 7 ∴ median = 7

(ii) Arranging the data in ascending order , we have 6, 8, 9, 15, 16, 18, 21, 22, 25Here n = 9, which is odd

median = 
$$\frac{1}{2}$$
(n+1)th term  
=  $\frac{(9+1)}{2}$ th term  
= value of the 5th term  
= 16

∴ median =16

(iii) Arranging data in ascending order: 6, 8, 9, 13, 15, 16, 18, 20, 21, 22, 25 Here n = 11 odd

median = 
$$\frac{1}{2}$$
(n+1)th term  
=  $\frac{(11+1)}{2}$ th term  
= value of the 6th term  
= 16

Therefore, median = 16

(iv) Arranging the data in ascending order , we have 0, 1, 2, 2, 3, 4, 4, 5, 5, 7, 8, 9, 10 Here n=13, which is odd

median = 
$$\frac{1}{2}$$
(n+1)th term  
=  $\frac{(13+1)}{2}$ th term  
= value of the 7th term  
= 4  
 $\therefore$  median =4

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