Exercise 9E
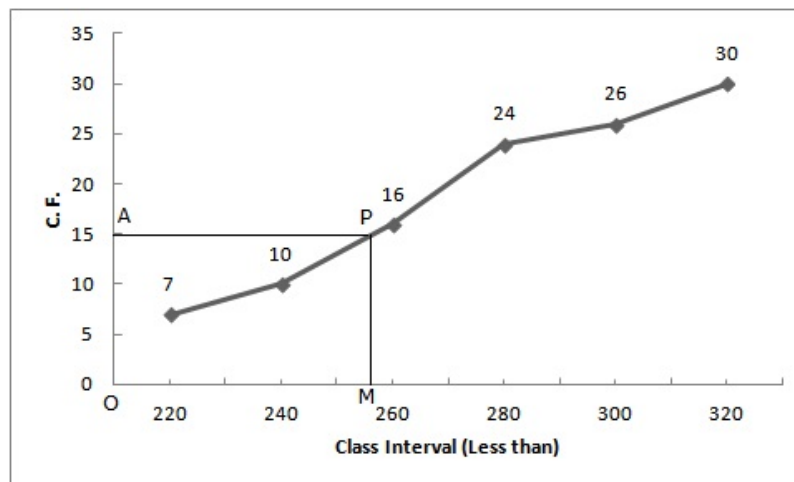
Question 1:
From the given table, we may prepare the cumulative frequency table as shown below:

Class interval	C.F
Less than 220	7
Less than 240	10
Less than260	16
Less than 280	24
Less than 300	26
Less than 320	30

On a graph paper, we plot the point (220, 7), (240, 10), (260, 16), (280, 24), (300, 26), (320, 30)

We join these points successively with a freehand to get the cumulative frequency curve or an ogive
Here N = 30, N/2 = 15

Take point (0, 15) on the y-axis and draw AP ‖ x-axis meeting the curve at P. Draw PM ⊥ x -axis intersecting the x-axis at M. Then OM = 258 and hence median = 258.

********** END *********