

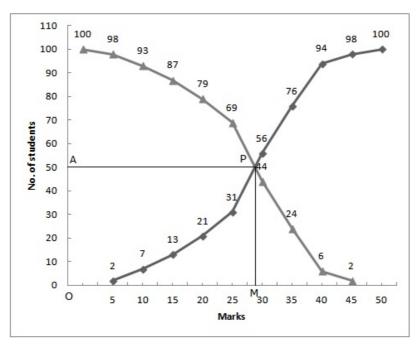
Exercise 9E

## Question 6:

## (i) Less than series:

Marks	Number of Students
Less than 5	2
Less than 10	7
Less than 15	13
Less than 20	21
Less than 25	31
Less than 30	56
Less than 35	76
Less than 40	94
Less than 45	98
Less than 50	100

Plot the points (5, 2), (10, 7), (15, 13), (20, 21), (25, 31), (30, 56), (35, 76), (40, 94), (45, 98) and (50, 100)



Join these points free hand to get the curve representing "less than" cumulative curve.

(ii) From the given table we may prepare the 'more than' series as shown below

Now, on the same graph paper as above, we plot the point (0, 100), (5, 98), (10, 93), (15, 87), (20, 79), (25, 69), (30, 44), (35, 24) and (40, 6) and (45, 2)Plot the points (5, 2), (10, 7), (15, 13), (20, 21), (25, 31), (30, 56), (35, 76), (40, 94), (45, 98) and (50, 100) Join these points free hand to get required curve Here N = 100, N/2= 50 Two curves intersect at point P(28, 50)

Hence, the median = 28

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