

Solution - Calculate the Mean given following data:

№ of flowers -  
 (class of 5)

№ of twigs

5-9	3
10-14	5
15-19	6
20-24	4
25-29	5
30-34	4

Ans: From the above data, the Mid point for each class is determined and arranged in the following form.

№ of flowers ( $x_i$ )	Mid point $\bar{x}$ in class ( $m_i$ )	№ of twigs ( $f_i$ )	$f x_m$
5-9	7	3	21
10-14	12	5	60
15-19	17	6	102
20-24	22	4	88
25-29	27	5	135
30-34	32	4	128
		$\Sigma f = 25$	$\Sigma f x_m = 480$

Now substituting the values of  $\Sigma f x_m$  and  $\Sigma f$  in the formula

$$\bar{x} = \frac{\Sigma f x_m}{\Sigma f} = \frac{480}{25} = 19.2 \text{ Ans}$$