

NCERT Maths Class X-Statistics Ex 14.1 - Question 8
Solutions by Dev Anoop (Bathinda)

Number of Days	Number of Students f_i	Class Marks x_i	$d_i = x_i - a$	$f_i d_i$
0 - 6	11	3	- 14	- 154
6 - 10	10	8	- 9	- 90
10 - 14	7	12	- 5	- 35
14 - 20	4	17	0	0
20 - 28	4	24	7	28
28 - 38	3	33	16	48
38 - 40	1	39	22	22
Total	40			- 181

$$\begin{aligned} \text{Mean} &= a + \frac{\sum f_i d_i}{\sum f_i} \\ &= 17 + \frac{-181}{40} \\ &= 17 - 4.525 \\ &= 12.475 \end{aligned}$$

Method Used – Assumed Mean , Here Class Intervals are Unequal