

NCERT Maths Class X-Statistics Ex 14.1 - Question 5
Solutions by Dev Anoop (Bathinda)

No. Of Mangoes	No. of Boxes f_i	Class Marks x_i	$U_i = \frac{x_i - a}{h}$	$f_i U_i$
50 - 52	15	51	-2	-30
53 - 55	110	54	-1	-110
56 - 58	135	57	0	0
59 - 61	115	60	1	115
62 - 64	25	63	2	50
Total	400			25

$$\begin{aligned}\text{Mean} &= a + \frac{\sum f_i U_i}{\sum f_i} \times h \\ &= 57 + \frac{25}{400} \times 3 \\ &= 57 + \frac{3}{16} \\ &= 57 + 0.19 \\ &= 57.19\end{aligned}$$