

NCERT Maths Class X-Statistics Ex 14.1 - Question 4
Solutions by Dev Anoop (Bathinda)

4.

No. of Heart Beats per min	No. of Women f_i	Class Marks x_i	$U_i = \frac{x_i - a}{h}$	$f_i U_i$
65 - 68	2	66.5	-3	-6
68 - 71	4	69.5	-2	-8
71 - 74	3	72.5	-1	-3
74 - 77	8	75.5 = a	0	0
77 - 80	7	78.5	1	7
80 - 83	4	81.5	2	8
83 - 86	2	84.5	3	6
Total	30			4

$$\text{Mean} = a + \frac{\sum f_i U_i}{\sum f_i} \times h$$

$$= 75.5 + \frac{4}{30} \times 3$$

$$= 75.5 + 0.4$$

$$= 75.9$$

Method Used - Step Deviation , Here Class Marks have comparatively difficult values