

NCERT Maths Class X-Statistics Ex 14.2 - Question 5

Solutions by Dev Anoop (Bathinda)

Runs Scored	no. of batsmen
3000 - 4000	4 f_0
<u>4000 - 5000</u>	18 f_1
5000 - 6000	9 f_2
6000 - 7000	7
7000 - 8000	6
8000 - 9000	3
9000 - 10000	1
10000 - 11000	1

Modal class 4000 - 5000, $l = 4000$, $h = 1000$

$$\text{Mode} = l + \frac{f_1 - f_0}{2f_1 - f_0 - f_2} \times h$$

$$= 4000 + \frac{18 - 4}{36 - 4 - 9} \times 1000$$

$$= 4000 + \frac{14}{23} \times 1000$$

$$= 4000 + 608.7$$

$$= 4608.7$$

Modal runs scored = 4608.7