

NCERT Maths Class X-Statistics Ex 14.2 - Question 6
Solutions by Dev Anoop (Bathinda)

no. of cars

Frequency

0 - 10	7
10 - 20	14
20 - 30	13
30 - 40	12 f_0
40 - 50	20 f_1
50 - 60	11 f_2
60 - 70	15
70 - 80	8

Modal class 40 - 50
 $l = 40$, $h = 10$

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

$$= 40 + \frac{20 - 12}{40 - 12 - 11} \times 10$$

$$= 40 + \frac{8}{17} \times 10$$

$$= 40 + 4.7$$

$$= 44.7$$