

Question 8: A class teacher has the following absentee record of 40 students of a class for the

whole term. Find the mean number of days a student was absent.

Number of days	0 – 6	6 – 10	10 – 14	14 – 20	20 – 28	28 – 38	38 – 40
Number of students	11	10	7	4	4	3	1

Answer: To find the class mark of each interval, the following relation is used.

$$x_i = \frac{\text{upper limit} + \text{Lower limit}}{2}$$

Taking 17 as assumed mean (a), d_i and $f_i d_i$ can be calculated as follows.

Number of days	Frequency (f_i)	x_i	$d_i = x_i - 17$	$f_i d_i$
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

From the table, we obtain

$$\sum f_i = 40 \text{ and } \sum f_i d_i = -181$$

$$\begin{aligned} \text{Mean, } \bar{x} &= a + \left(\frac{\sum f_i d_i}{\sum f_i} \right) \\ &= 17 + \left(\frac{-181}{40} \right) \\ &= 17 - 4.525 \end{aligned}$$

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