Exercise 14C

Question 7:
Given frequency distribution is as below :

Class Interval	10-14	14-20	20-32	32-52	52-80
Frequency	5	6	9	25	21

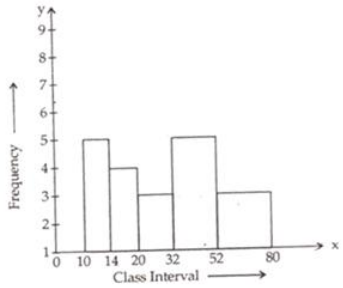
In the above table , class intervals are of unequal size, so we calculate the adjusted frequency by using the following formula :

$$Adjusted \quad Frequency = \frac{Minimum \quad class \quad size \quad \times \quad its \quad frequency}{Class \quad size \quad of \quad this \quad class}$$

Thus , the adjusted frequency table is

Class Intervals	Frequency	Adjusted Frequency
10 – 14	5	$\frac{4}{4} \times 5 = 5$
14 – 20	6	$\frac{4}{6} \times 6 = 4$
20 – 32	9	$\frac{4}{12} \times 9 = 3$
32 – 52	25	$\frac{4}{20} \times 25 = 5$
52 – 80	21	$\frac{4}{28} \times 21 = 3$

Now take class intervals along x-axis and adjusted frequency along y-axis and constant rectangles having their bases as class-size and heights as the corresponding adjusted frequencies.
Thus, we obtain the histogram as shown below:



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