Experiment - 2

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* **Aim :-** To find the mean using step deviation method for the given data.

* **Experiment :-** The wages of the workers in a factory are tabulated below :-

Wages	no. of workers
10 - 20	4
20 - 30	12
30 - 40	14
40 - 50	28
50 - 60	23
60 - 70	16
70 - 80	3

* **Theory & Formula :-**

Mean :- Mean of a set of observations is their sum divided by the number of observations.

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But we are using step-deviation method so

$$\bar{x} = A + \frac{\sum f_i d_i}{N} \times h \quad \text{—— (1)}$$

Where

A = assumed mean
N = total no of frequencies
f = frequency
h = magnitude of class interval
x = mid value of class interval
$d_i = \frac{x_i - A}{h}$

* **Result** :- Mean is 46.4.