

Mathematics

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(Chapter – 13) (Statistics & Probability)(Exemplar Problems)
(Class – X)

Exercise 13.1

Choose the correct answer from the given four options:

Question 4:

In the formula $\bar{x} = a + h \left(\frac{\sum f_i u_i}{\sum f_i} \right)$, for finding the mean of grouped frequency distribution u_i is equal to

- (A) $\frac{x_i + a}{h}$ (B) $h(x_i - a)$ (C) $\frac{x_i - a}{h}$ (D) $\frac{a - x_i}{h}$

Answer 4:

- (C) $\frac{x_i - a}{h}$

Solution:

Given that, $\bar{x} = a + h \left(\frac{\sum f_i u_i}{\sum f_i} \right)$,

Above formula is a step deviation (Short – Cut) formula.

$$u_i = \frac{x_i - a}{h}$$

Where x_i data is values, a is assumed mean and h is class size.

Hence, the option (C) is correct.

