

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 22:

The probability of getting a bad egg in a lot of 400 is 0.035. The number of bad eggs in the lot is

(A) 4

(B) 14

(C) 28

(D) 7

Answer 22:

(B) 14

Solution:

Here, total number of eggs = 400

Probability of getting a bad egg = 0.035

$$\Rightarrow \frac{\text{number of bad eggs}}{\text{total number of eggs}} = 0.035$$

$$\Rightarrow \frac{\text{number of bad eggs}}{400} = 0.035$$

$$\therefore \text{Number of bad eggs} = 0.035 \times 400 = 14$$

Hence, the option (B) is correct.

