

# 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 23:

A girl calculates that the probability of her winning the first prize in a lottery is 0.08. If 6000 tickets are sold, then how many tickets has she bought?

- (A) 480                      (B) 14                      (C) 28                      (D) 7

### Answer 23:

- (A) 480

### Solution:

Given total number of sold tickets = 6000

Let she bought  $x$  tickets.

Then probability of her winning the first prize =  $\frac{x}{6000} = 0.08$

$$x = 0.08 \times 6000$$

$$\therefore x = 480$$

Hence, she bought 480 tickets.

Hence, the option (A) is correct.

