

# 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 26:

A school has five houses A, B, C, D and E. A class has 23 students, 4 from house A, 8 from house B, 5 from house C, 2 from house D and rest from house E. A single student is selected at random to be the class monitor. The Probability that the selected student is not from A, B and C is

(A)  $\frac{4}{23}$

(B)  $\frac{6}{23}$

(C)  $\frac{8}{23}$

(D)  $\frac{17}{23}$

### Answer 26:

(B)  $\frac{6}{23}$

### Solution:

Total number of students = 23

Number of students in house A, B and C =  $4 + 8 + 5 = 17$

∴ Remaining students =  $23 - 17 = 6$

So, probability that the selected student is not from A, B and C =  $\frac{6}{23}$

Hence, the option (B) is correct.

