



# CBSE NCERT Based Chapter wise Questions (2025-2026)

Class-X

Subject: MATHEMATICS

Chapter Name : Probability (Chap : 14)

Total : 5 Marks (expected) [MCQ(2)-1 Mark, SA-II(1)-3 Marks]

Level - 1

## MCQ Type :

- A dice is thrown. Find the probability of getting an even number.  
(A)  $\frac{2}{3}$  (B) 1 (C)  $\frac{5}{6}$  (D)  $\frac{1}{2}$
- If the probability of an event is equal to zero, then the event is called :  
(A) Unsure event (B) Sure Event (C) Impossible event (D) Independent event
- If two different dice are rolled together, the probability of getting an even number on both dice is :  
(A)  $\frac{13}{6}$  (B)  $\frac{1}{2}$  (C)  $\frac{1}{6}$  (D)  $\frac{1}{4}$
- Which of the following cannot be the probability of an event?  
(A) 0.7 (B) 15% (C)  $\frac{2}{3}$  (D) -1.5
- The probability of a leap year selected at random contains 53 Sundays is :  
(A)  $\frac{53}{366}$  (B)  $\frac{1}{7}$  (C)  $\frac{2}{7}$  (D)  $\frac{53}{365}$
- The probability that a number selected at random from the numbers 1, 2, 3, 4, ..., 15 is a multiple of 4 is  
(A)  $\frac{4}{15}$  (B)  $\frac{2}{15}$  (C)  $\frac{1}{5}$  (D)  $\frac{1}{3}$
- The total number of event points of throwing 10 coins simultaneously is  
(A) 1024 (B) 512 (C) 100 (D) 10
- The probability that a non leap year selected at random will have 53 Sundays is  
(A)  $\frac{1}{7}$  (B)  $\frac{2}{7}$  (C)  $\frac{3}{7}$  (D)  $\frac{4}{7}$
- A bag contains 3 red and 2 blue marbles. A marble is drawn at random. The probability of drawing a black ball is :  
(A)  $\frac{3}{5}$  (B)  $\frac{2}{5}$  (C)  $\frac{0}{5}$  (D)  $\frac{1}{5}$
- Two dice are thrown simultaneously. The probability of getting a sum of 9 is :  
(A)  $\frac{1}{10}$  (B)  $\frac{3}{10}$  (C)  $\frac{1}{9}$  (D)  $\frac{4}{9}$

## SA-II Type :

- Two dice are thrown simultaneously. E is the event that sum of numbers on the uppermost face is at least 10. Then find (i) n(E) (ii) n(S) where S denotes sample space (iii) P(E).
- 3 coins are tossed simultaneously. A is the event of getting no head. Then find (i) event space for the experiment (ii) P(A).
- Two coins are tossed simultaneously. What is the probability of getting (i) At least one head? (ii) At most one tail? (iii) A head and a tail ?

14. All the black face cards are removed from a pack of 52 playing cards. The remaining cards are well shuffled and then a card is drawn at random. Find the probability of getting (i) face card (ii) red card (iii) black card.
15. Two dice are thrown at the same time. What is the probability that the sum of the two numbers appearing on the top of the dice is (i) at least 9? (ii) 7? (iii) less than or equal to 6?

## ANSWER

- |      |       |
|------|-------|
| 1. Ⓓ | 6. Ⓒ  |
| 2. Ⓒ | 7. Ⓐ  |
| 3. Ⓓ | 8. Ⓐ  |
| 4. Ⓓ | 9. Ⓒ  |
| 5. Ⓒ | 10. Ⓒ |

11. (i) 6                      (ii) 36                      (iii)  $\frac{1}{6}$

12. (i) {HHH, HTH, HHT, HTT, THH, THT, TTH, TTT}                      (ii)  $\frac{1}{8}$

13. (i)  $\frac{3}{4}$                       (ii)  $\frac{3}{4}$                       (iii)  $\frac{1}{2}$

14. (i)  $\frac{3}{23}$                       (ii)  $\frac{13}{23}$                       (iii)  $\frac{10}{23}$

15. (i)  $\frac{5}{18}$                       (ii)  $\frac{1}{6}$                       (iii)  $\frac{5}{12}$

