

1. Two dice are thrown at the same time. Determine the probability that the difference of the number on the two dice is 2 (cbse-2025)

2. Assertion (A): The Prob. of selecting a number at random from the number 1 to 20 is 1.

Reason (R): For any event E , if $P(E) = 1$, then E is called a sure event (cbse-2025)

3. Rahul is a lucky charm for his cricket team. He has a jar of cards with numbers from 10 to 74. Before each match, he draws a card from the jar. If the card bears an even number, the team wins. If the number is even and divisible by 5, they win a big margin. If the number is an odd number less than 30, they win by a small margin. And if the number is a prime no. b/w 50 and 74, they lose.

(i) What is Prob. that Rahul draws a card with an even no.

(ii) What is the Prob. that Rahul draw a card with an odd no. less than 30

(iii) What is the Prob. that Rahul draw a card with a prime no. 50 and 74 (cbse-2025)

4. Two friends Anil and Ashraf were born in the December month in the year 2010. Find the Prob.

(i) they share same date of birth (cbse-2025)

(ii) they have diff. date of birth

5. The number of red ball in a bag is 10 more than the number of black ball. If the prob. of drawing a red ball at ~~and~~ random from this bag is $\frac{3}{5}$ then the total number of balls in bag (cbse-2025)

6. While shuffling a pack 52 cards, one card was accidentally dropped. Find the Prob that the dropped card

(i) is not a face card

(cbse-2025)

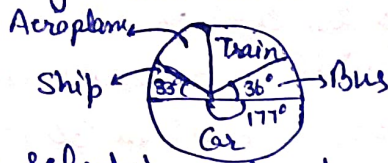
(ii) is a black King

7. The Prob. of getting a composite number greater than 3 on throwing a die is (cbse-2025)

8. The number of red balls in a bag is three more than the number of black balls. If the prob. of drawing a red ball at random from the given bag is $\frac{12}{23}$. find the total number of balls in the given bag. (cbse-2025)

9. In a pack of 52 card one card is lost. from the remaining cards, a card is drawn at random. find the prob. that the drawn card is queen of heart, if the lost card is a black card (cbse-2024)

10. In a survey on holidays, 120 people were asked to state which type of transport they used on their last holiday.



(cbse-2024)

(i) If one person is selected at random. find the prob. that he/she travelled by bus or ship

(ii) which is most favourite mode of transport and how many people used it.

(iii) The Prob. that randomly selected person used aeroplane is $\frac{1}{60}$ find the revenue collected by air company at the rate of ₹ 5000 per person

11. Three coins are tossed simultaneously. what is the Prob. of getting
 (i) at least one head (ii) exactly two tail (iii) at most one tail
 (cbse-2024)

12. A box contains 90 discs which are numbered 1 to 90. If one disc is drawn at random from the box, find the prob. that it bears

(i) 2-digit number less than 40

(ii) number divisible by 5 and greater than 50 (cbse-2024)

(iii) a perfect square number.

13. Three unbiased coins are tossed simultaneously. find the prob. of getting

(i) at least one head

(cbse-2024)

(ii) exactly one tail

(iii) two heads and one tail

14. A bag contains 4 red, 3 blue and 2 yellow balls. one ball is draw at random from the bag. find the Prob. that drawn ball is (i) red (ii) yellow (cbse - 2023)

15. Computer Based Learning refers to any teaching methodology that makes use of Computers for information transmission. At an elementary school level, computer application can be used to display multimedia lesson plans. A survey was done on 1000 elementary and secondary school of Assam and they were classified by the number of Computer they had.

No. of Comp.	1-10	11-20	21-50	51-100	101 and more
No. of school	250	200	290	180	80

- (i) find the Prob. that the school chosen at random has more than 100 Computers.
- (ii) (a) find the Prob. that the school chosen at random has 50 or fewer Computers.
OR
(b) find the Prob. that the school chosen at random has no more than 20 Computer.
- (iii) find the Prob. that the school chosen at random has 10 or less than 10 Computers.
- (cbse - 2023)