

1. If the probability of winning a game is 0.07, what is the probability of losing it?
2. If a number is chosen at random from the numbers  $-3, -2, -1, 0, 1, 2, 3$ . What is the probability that  $x^2 < 4$  ?
3. A number is chosen at random from the numbers,  $-3, -2, -1, 0, 1, 2, 3$ . What will be the (3) probability that the square of this number is less than or equal to 1 ?
4. A letter of English alphabet is chosen at random. Determine the probability that the chosen letter is a consonant.
5. What is the probability that a number selected at random from the numbers  $3, 4, 5, \dots, 9$  is a multiple of 4?
6. From a well shuffled pack of cards, a card is drawn at random. Find the probability of getting a black queen.
7. A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears (i) a two digit number (ii) a perfect square number (iii) a number divisible by 5.
8. All red face cards are removed from a pack of playing cards. The remaining cards are well shuffled and then a card is drawn at random from them. Find the probability that the drawn card is (i) a red card (ii) a face card and (iii) a card of clubs.
9. What is the probability that a leap year has 53 Tuesdays and 53 Mondays?
10. Cards marked with numbers  $13, 14, 15, \dots, 60$  are placed in a box and mixed thoroughly. One card is drawn at random from the box. Find the probability that number on the card drawn is (i) divisible by 5 (ii) a number is a perfect square
11. A bag contains tickets numbered  $11, 12, 13, \dots, 30$ . A ticket is taken out from the bag at random. Find the probability that the number on the drawn ticket (i) is a multiple of 7 (ii) is greater than 15 and a multiple of 5.
12. A box contains 100 red cards, 200 yellow cards and 50 blue cards. If a card is drawn at random 12 from the box, then find the probability that it will be (i) a blue card (ii) not a yellow card (iii) neither yellow nor a blue card.
13. Find the probability that a number selected from the number 1 to 25 is not a prime number when each of the given numbers is equally likely to be selected.
14. A box contains cards numbered  $3, 5, 7, 9, \dots, 35, 37$ . A card is drawn at random from the box. Find the probability that the number on the drawn card is a prime number.
15. A die is thrown. Find the probability of getting:  
(i) a prime number (ii) 2 or 4  
(iii) a multiple of 2 or 3 (iv) an even prime number  
(v) a number greater than 5 (vi) a number lying between 2 and 6  
(vii) a composite number
16. Two unbiased dice are thrown. Find the probability that the total of the numbers on the dice is greater than 10.
17. A box contains 20 cards numbered from 1 to 20. A card is drawn at random from the box. Find the probability that the number on the drawn card is (i) divisible by 2 or 3 (ii) a prime number

