1. A die is thrown. What is the probability that the outcome is a prime number?

2. Two coins are tossed. What is the probability that more heads than tails are obtained?

3. Two dice are thrown. What is the probability that both outcomes are same?

4. Two dice are thrown. What is the probability that sum of outcomes is 8?

5. Two dice are thrown. What is the probability that product of outcomes is a perfect square?

6. Two dice are thrown. What is the probability that sum of outcomes is even?

7. Three dice are thrown. What are the chances that sum of outcomes is 7?

8. Three coins are tossed. What is the probability that at most two heads are obtained?

9. Five digit number is formed using first six natural numbers without repeating digits. What is the probability that the number is divisible by 4?

10. In a class, there are 15 boys and 10 girls. If three students are selected at random, what is the probability that 1 girl and 2 boys are selected?

11. Amit remembers that his ATM PIN has digits 4, 5, 2 and 4. What is the probability that he will enter the correct PIN?

12. There are 6 positive and 8 negative numbers. Four numbers are chosen at random and multiplied. What is the probability that their product will be always positive?

13. Letters of the word PROBABILITY are arranged. What is the probability that all vowels are together?

14. Three cards are drawn from standard pack of cards. What is the probability that all of them are from same suit?

15. Two cards are drawn at random from a pack of 52 cards. What is the probability that either exactly one card is a king?

16. Two cards are drawn at random from a pack of 52 cards. What is the probability that either both are red or both are aces?

17. In a lottery, there are 10 prizes and 40 blanks. A lottery is drawn at random. What is the probability of getting a prize?

18. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:

19. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. What is the probability that exactly one blue ball is drawn?

20. A bag contains 6 white and 4 black balls. If 2 balls are drawn at random, find the probability that they are of same color.

21. Tickets numbered 1 to 40 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

22. What is the probability that a leap year will have 53 Fridays?

23. Probability of student A getting a job is 70% and that of student B getting a job is 60%. What is the chance that both of them will get a job?

24. At a parking of a mall, there are separate spaces for 4-wheeler parking and 2-wheeler parking. The probability of finding a parking space for a car is 0.1 and that for not finding a parking space for a two wheeler is 0.1. What percent chances are there such that at exactly one of them will find a parking space?

25. A problem is given to three students whose chances of solving it are 1/5, 1/6 and 1/3 respectively. What is the probability that the problem will be solved?

26. Eight coins are tossed simultaneously. The probability of getting at least 6 heads is:

27. Two dices are tossed. What is the probability that the sum of the scores is even if it is known that the sum of the scores is not greater than 6?

28. One bag contains 5 white and 4 black balls. Another bag contains 7 white and 9 black balls. A ball is transferred from the first to the second bag and then a ball is drawn from the second bag. Find the probability that the ball is white.

29. A coin of radius 3 cm is randomly dropped on a square floor full of square shaped tiles of side 10 cm each. What is the probability that the coin will land completely within a tile?

30. It is 4 to 3 against a person A, who is 35 years of age that he will live up to the age of 75, and it is 3 to 2 in favor of a person B, who is now 45, that he will live up to the age of 85. What is the chance that at least one of them will be alive 40 years hence?