



## MATHS

# BOOKS - JEEVITH PUBLICATIONS MATHS (KANNADA ENGLISH)

## PROBABILITY

One Marks Question With Answer

1. Describe the sample space for the indicated experiments

A coin is tossed 3 times



Watch Video Solution

2. Describe the sample space for the indicated experiments

A coin is tossed and a die is thrown

 [Watch Video Solution](#)

3. Describe the sample space for the indicated experiments.

A coin is tossed and then a die is rolled only in case a head is shown on the coin

 [Watch Video Solution](#)

4. Describe the sample space for the indicated experiments.

An experiment consists of tossing a coin and then

throwing it second time if a head occurs. If a tail occurs on the first toss then a die is rolled once

 [Watch Video Solution](#)

5. Describe the sample space for the indicated experiments.

A box contains 1 red 3 identical white balls. Two balls are drawn in succession without replacement.

 [Watch Video Solution](#)

6. Describe the sample space for the indicated experiment.

Two dice are thrown and the sum of the numbers which come on the dice is less than 4



[Watch Video Solution](#)

7. Describe the sample space for the indicated experiments.

A coin is tossed three times and exactly one head appears.



[Watch Video Solution](#)

8. One card is drawn from a well shuffled deck of 52 cards. If each outcome is equally likely, calculate the probability that the card will be

(i) a diamond

(ii) not a diamond



[Watch Video Solution](#)

## Two Marks Question With Answer

1. A bag contains 10 balls of which 5 are red 3 are blue and 2 are yellow. Calculate the probability that it will be (i) red (ii) blue (iii) either red or blue.



[Watch Video Solution](#)

2. A committee of two persons is selected from two men and two women. What is the probability that the committee will have (i) no men (ii) two men



[Watch Video Solution](#)

3. A coin is tossed twice. What is the probability that at least one tail occurs?



[Watch Video Solution](#)

4. A die is thrown once. Find the probability that a prime number will appear.



[Watch Video Solution](#)

5. A card is selected from a pack of 52 cards. Find the probability that the card drawn is

(i) an ace

(ii) black card



 [Watch Video Solution](#)

6. Three coins are tossed once. Find the probability of getting at least two heads

 [Watch Video Solution](#)

7. There are 4 men and 6 women in a city council. If one council member is selected for a committee at random, how likely is it that it is a woman?

 [Watch Video Solution](#)

8. What is the probability that 4 cards drawn at random from a well-shuffled pack of playing cards belong to different suits?



[Watch Video Solution](#)

9. Bag I contains 3 red and 4 black balls. While Bag II contains 5 red and 6 black balls. One ball is drawn at random from one of the bags and it is found to be red. Find the probability that it was drawn from Bag II.



[Watch Video Solution](#)

**10.** A bag contains 5 tennis balls and 4 cricket balls. Three balls are drawn at random from the bag. Find the probability that

(i) all the drawn balls are cricket balls

(ii) atleast one of the drawn balls is cricket ball



**Watch Video Solution**

**11.** In a class of 100 students 60 drinks tea. 50 drink coffee and 30 drink both .A students from this class is selected at random.Find the probability that the student takes

(i) atleast one of the two drinks

(ii) only one of the two drinks



**Watch Video Solution**

**12.** Suppose 3 bulbs are selected at random from a lot. Each bulb is tested and classified as defective (D) or non-defective (N). Write the sample space of this experiment.



**Watch Video Solution**

**13.** A coin is tossed. If it shows a tail we draw a ball from a box which contains 2 red and 3 black balls. If it shows head we throw a die. Find the sample space for this experiment



**Watch Video Solution**

**14.** A fair coin with 1 marked on one face and 6 on the other and a fair die are both tossed Find the probability that the sum of numbers that turn up is (i) 3 (ii) 12



**Watch Video Solution**

**15.** A letter is chosen at random from the word 'ASSASSINATION' Find the probability that latter is a vowel  
(ii) a consonant



**Watch Video Solution**

**16.** In a lottery, a person chooses six different natural numbers at random from 1 to 20, and if these six numbers

match with the six numbers already fixed by the lottery committee, he wins the prize. What is the probability of winning the prize in the game?

 [Watch Video Solution](#)

17. A and B are events such that  $P(A) = 0.42$ ,  $P(B) = 0.48$  and  $P(A \text{ and } B) = 0.16$ . Determine (i)  $P(\text{not } A)$ , (ii)  $P(\text{not } B)$ , (iii)  $P(A \text{ or } B)$

 [Watch Video Solution](#)

18. A box contains 10 red marbles, 20 blue marbles and 30 green marbles. 5 marbles are drawn from the box. What is

the probability that ( i ) all will be blue ? ( ii ) atleast one will be green?

 [Watch Video Solution](#)

**19.** Out of 100 students,two sections of 40 and 60 are formed.If you and your friend are among the 100 students,what is the probability that

(a) you both enter the same section ?( b) you both enter the different section?

 [Watch Video Solution](#)

**20.** A and B are two events such that  $P(A) = 0.54, P(B) = 0.69$  and  $P(A \cap B) = 0.35$  . Find

(a)  $P(A \cup B)$  (ii)  $P(A' \cap B')$  (iii)  $P(A \cap B')$  (iv)  $P(B \cap A')$



**Watch Video Solution**