

## Practice Problems: Probability

1. A coin is tossed 1000 times with the following frequencies:

Head: 445, Tail: 555

When a coin is tossed at random, what is the probability of getting (i) a head? (ii) a tail?

2. A die is thrown 100 times and outcomes are noted as given below:

Outcome	1	2	3	4	5	6
Frequency	21	9	14	23	18	15

If a die is thrown at random, find the probability of getting a/an

(i) 3 (ii) 5 (iii) 4 (iv) Even number (v) Odd number (vi) Number less than 3

3. A box contains two pairs of socks of two colours (black and white). You have picked out a white sock. You pick out one more sock with your eyes closed. What is the probability that you will make a pair?
4. Two coins are tossed simultaneously 500 times, and the outcomes are noted as given below:

Outcome	Two Heads (HH)	One Head (HT or TH)	No Head (TT)
Frequency	105	275	120

If same pair of coin is tossed at random, find the probability of getting (i) Two heads (ii) One head (iii) No head.

5. There are 10 marbles in a box which are marked with distinct numbers from 1 to 10. A marble is drawn randomly from the box. What is the probability of getting a prime numbered marble?
6. A dice is rolled. What is the probability of getting an even prime number?
7. Find the probability of drawing a red face card from the well shuffled deck of 52 cards.
8. A coin is tossed 100 times and head is obtained 56 times. What is the probability of getting a tail.
9. A bag contains 20 green balls, 15 red balls and 5 blue balls. If a ball is drawn at random from the bag, what is the probability of getting neither red nor blue ball?
10. What is the probability of getting a red card from the well shuffled pack of cards?