1. A coin is tossed once. What is the probability of getting a head?
   A. ¼ B. 1/3
   C. ½ D. 1 (C)

Explanation : A coin has two equally likely outcomes, Head and Tail. So the probability of getting a head is 1 out of 2.

2. A bag contains one red ball, one blue ball and one yellow ball. What is the probability of drawing a yellow ball?
   A. ½
   B. 1/3
   C. 2/3
   D. 1/4 (B)

Explanation: There are 3 balls in total and only 1 of them is yellow. So the probability is 1/3.

3. If a die is thrown once, what is the probability of getting a number greater than 4?
   A. 1/6 B. 1/3
   C. ½ D. 2/3 (B)

Explanation: Numbers greater than 4 on a die are 5 and 6. So there are 2 favourable outcomes out of 6, giving 2/6 = 1/3.

4. One card is drawn from a well-shuffled deck of 52 cards. What is the probability of getting an ace?
   A. 1/13 B. 1/26
   C. 4/13 D. 1/52 (A)

Explanation: A deck has 4 aces out of 52 cards. So the probability is 4/52 = 1/13.

5. The probability of Sangeeta winning a tennis match is 0.62. What is the probability of Reshma winning the match?
   A. 0.62 B. 0.48
   C. 0.38 D. 1.62 (C)

Explanation : Only one player can win. So Reshma's probability is 1 - 0.62 = 0.38.

6. What is the probability that two friends have the same birthday, ignoring a leap year?
   A. 1/365
   B. 1/12
   C. 1/7
   D. 364/365 (A)

Explanation : After fixing one friend's birthday, the second friend can match it in only 1 out of 365 possible days.

7. In a class of 40 students, 25 are girls and 15 are boys. If one student is chosen at random, what is the probability of selecting a girl?
   A. 5/8 B. 3/8
   C. ¼ D. 25/40 (A)

Explanation : The probability of selecting a girl is 25 out of 40, which simplifies to 5/8.

8. A box contains 3 blue, 2 white and 4 red marbles. What is the probability of drawing a red marble?
   A. 2/9 B. 1/3
   C. 4/9 D. 3/9 (C)

Explanation : Total marbles are 3 + 2 + 4 = 9. Red marbles are 4, so the probability is 4/9.

9. Two different coins are tossed simultaneously. What is the probability of getting at least one head?
   A. 1/4 B. ½
   C. 3/4 D. 1 (C)

Explanation : Possible outcomes are HH, HT, TH, TT. At least one head appears in 3 outcomes, so the probability is 3/4.

10. Two dice are thrown together. What is the probability that the sum of the numbers is 8?
    A. 5/36 B. 1/6
    C. 1/9 D. 1/12 (A)

Explanation : The sum 8 can occur in 5 ways: (2,6), (3,5), (4,4), (5,3), (6,2). So the probability is 5/36.