Probability

1. Tickets numbered 1 to 20 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?

a)1/2 b)2/5 c) 8/15 d)9/20

2. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

a)10/21 b)11/21 c)2/7 d)5/7

3.In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?

a)1/3 b)3/4 c)7/19 d)9/21

4. What is the probability of getting a sum 9 from two throws of a dice?

a)1/6 b)1/8 c)1/9 d)1/12

5. Three unbiased coins are tossed. What is the probability of getting at most two heads?

a)3/4 b)1/4 c)3/8 d) 7/8

6. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:

a)21/46 b)25/117 c)1/50 d)3/25

7. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

a)1/10 b)2/5 c)2/7 d)5/7

8. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:

a)1/13 b)2/13 c)1/26 d)1/52

9. 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:

a)1/22 b)3/22 c)2/91 d)2/77

10. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:

a) 3/20 b)29/34 c)47/100 d)13/102s