CHAPTER- Probability

Q1. The probability of selecting a red ball at random from a jar that contains only red, blue and orange balls is $\frac{1}{4}$. The probability of selecting a blue ball at random from the same jar is $\frac{1}{3}$. If the jar contains 10 orange balls, find the total number of balls in the jar

Q2. A card is drawn at random from a well shuffled pack of 52 playing cards. Find the probability that the drawn card is

1) neither a king nor a queen.
2) neither a jack nor an ace
3) a red king.
4) a queen or a jack.
5) face card

Q3. What is the probability that a randomly selected month with 31 days will contain 5 Sundays?

Q4. A bag contains 15 white and some black balls. If the probability of drawing a black ball from the bag is thrice that of drawing a white ball, find the number of black balls in the bag.

Q5. The probability of selecting a blue marble at random from a jar that contains only blue, black and green marbles is 1/5. The probability of selecting a black marble at random from the same jar is 1/4. If the jar contains 11 green marbles, find the total number of marbles in the jar.

Q6.

Three different coins are tossed together. Find the probability of getting
(i) exactly two heads,
(ii) at least two heads (iii) at least two tails.

Q7. **There are 100 cards in a bag on which numbers from 1 to 100 are written. A card is taken out from the bag at random. Find the probability that the number on the selected card (i) is divisible by 9 and is a perfect square (ii) is a prime number greater than 80.**

Q8. A bag contains 25 cards numbered from 1 to 25. A card is drawn at random from the bag. Find the probability that the number on the drawn card is:
(i) divisible by 3 or 5
(ii) a perfect square number.

Q9. A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card drawn is
(i) A card of spade or an ace
(ii) A black king
(iii) Neither a jack nor a king
(iv) Either a king or a queen

Q10

Q3. A number is chosen at random from the numbers -3,-2,-1,0,1,2,3. What will be the probability that square of this number is less than or equal to 1