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## CBSE TEST PAPER-01

### MATHEMATICS (Class-10)

#### Chapter 15. Probability

1. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is a heart (1 mark)
2. The king, queen and jack of clubs are removed from a deck of 52 playing cards and the well shuffled. One card is selected from the remaining cards. Find the probability of getting a heart. (1 mark)
3. A number  $x$  is selected from the numbers 1,2,3 and then a second number randomly selected from the numbers 1,4,9. What is the probability that the product  $xy$  of the two numbers will be less than 9? (2 marks)
4. Find the probability that a leap year selected at random will contain 53 Sundays. (2 marks)
5. A bag contains 5 red, 8 white and 7 black balls. A ball is drawn at random from the bag. Find the probability that the drawn ball is neither white nor black. (2 marks)
6. A bag contains 5 red, 8 white and 7 black balls. A ball is drawn at random from the bag. Find the probability that the drawn ball is: (2 marks)
  - (i) Red or white
  - (ii) Not black
7. A lot consists of 144 ball pens of which 20 are defective and the others are good. Nuri will buy a pen if it is good, but will not buy if it defective. The shopkeeper draws one pen at random and gives it to her. What is the probability that : (2 marks)
  - (i) She will buy it?
  - (ii) She will not buy it?
8. Three unbiased coins are tossed together. Find the probability of getting: (2 marks)
  - (i) All heads
  - (ii) At least two heads
9. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: (2 marks)
  - (i) the seven of clubs
  - (ii) jack
10. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: (2 marks)
  - (i) the ace of spades
  - (ii) a queen