

**CBSE Math Test Paper - X Probability -6**

1. (1) A dice is thrown once. Find the probability of getting
  - (a) A number greater than 3
  - (b) A number less than 5
2. A bag contains 5 black, 7 red and 3 white balls. A ball is drawn from the bag at random. Find the probability that the ball drawn is
  - (a) Red
  - (b) Black or white
  - (c) Not black
3. A bag contains 4 red 5 black and 6 white balls. A ball is drawn from the bag a random. Find the probability that the ball drawn is
  - (a) White
  - (b) Red
  - (c) Not black
  - (d) Red or white
4. A card is drawn at random from a pack of 52 playing cards. Find the probability that the card drawn is neither a queen nor a jack.
5. Tickets numbered from 1 to 20 are mixed up together and then a ticket is drawn at random. What is the probability that the ticket has a number which is a multiple of 3 or 7?
6. In a single throw of dice, what is the probability of
  - (a) An odd number on one dice and 6 on the other
  - (b) A number greater than 4 on each dice
  - (c) A total of 11
  - (d) Getting same number on either dice.
7. A die is thrown twice. Find the probability of getting
  - (a) doublets
  - (b) number greater than 5 on one dice.
8. Three coins are tossed simultaneously. Find the probability of getting
  - (a) Exactly 2 heads
  - (b) No heads

9. In a simultaneous toss of four coins, What is the probability of getting:
- (a) Less than 2 heads?
  - (b) Exactly 3 head
  - (c) More than 2 heads?
10. Three coins are tossed once. Find the probability of:
- (a) 3 heads
  - (b) exactly 2 heads
  - (c) at least two heads

**Answers**

1.  $\frac{1}{2}$ ,  $\frac{2}{3}$ ,      2.  $\frac{7}{15}$ ,  $\frac{8}{15}$ ,  $\frac{2}{3}$       3.  $\frac{2}{5}$ ,  $\frac{4}{15}$ ,  $\frac{2}{3}$ ,  $\frac{2}{3}$       4.  $\frac{11}{13}$       ,5.  $\frac{2}{5}$   
6.  $\frac{1}{6}$ ,  $\frac{1}{9}$ ,  $\frac{1}{18}$ ,  $\frac{1}{6}$       7.  $\frac{1}{6}$ ,  $\frac{11}{36}$       8.  $\frac{3}{8}$ ,  $\frac{1}{8}$       9.  $\frac{5}{6}$ ,  $\frac{3}{8}$ ,  $\frac{5}{16}$   
10.  $\frac{1}{8}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$