

X - Mathematics Assignment No-03 - Probability.

Q1. One card is drawn from a well shuffled deck of 52 cards. If each outcome is equally likely, Find the probability that the card will be

(i) a heart (ii) not an ace

(iii) a red card (iv) not a diamond

Q2. A bag contains 9 marbles of which 4 are red, 3 are blue and 2 are yellow. The marbles are similar in shape and size. A marble is drawn at random from the bag. Calculate the probability that it will be

(i) Red (ii) yellow (iii) Blue

(iv) not blue (v) either red or yellow.

Q3. A coin is tossed twice, what is the probability that at least one tail occurs?

Q4. If $\frac{7}{13}$ is the probability of an event, what is the probability of the event, 'not A'.

Cont Pg-2 →

- Q5. Three coins are tossed once. Find the probability of at most two heads.
- Q6. A pair of dice is thrown once. Find the probability of getting doublet of even numbers.
- Q7. A pair of dice is thrown once. Find the probability of an odd number on one die and 2 on the other.
- Q8. A pair of dice is thrown once. Find the probability that the sum of the numbers appearing on two dice is 7.
- Q9. Three dice are thrown once. Find the probability of getting a sum total of 10.
- Q10. A pair of dice is thrown once. Find the probability of getting at most 10.

ANSWERS				
Q1 (i) $\frac{1}{4}$	(Q2) (i) $\frac{4}{9}$	(Q3) $\frac{3}{4}$	(Q6) $\frac{1}{12}$	(Q9) $\frac{1}{8}$
(ii) $\frac{12}{13}$	(ii) $\frac{2}{9}$	(Q4) $\frac{6}{13}$	(Q7) $\frac{1}{6}$	(Q10) $\frac{11}{12}$
(iii) $\frac{1}{2}$	(iii) $\frac{1}{3}$	(Q5) $\frac{7}{8}$	(Q8) $\frac{1}{6}$	
(iv) $\frac{3}{4}$	(iv) $\frac{2}{3}$			