

IX - Mathematics Assignment No-03 - Probability.

(Q1) A basket has 600 electric bulbs out of which 12 are defective. Find the probability of non-defective bulbs.

(Q2) Chits marked numbers 2 to 101 are placed in a box and mixed thoroughly one chit is drawn from the box and the number is noted. Find the probability that the number on the chit is

(i) even prime no.

(ii) no. is a perfect square

(iii) no. is a multiple of 11

(Q3) A bag contains 12 balls out of which x are white then

(i) if one ball is drawn at random what is the probability that it will be a white ball?

(ii) on Pg-2
→

Cont Pg-2
→

Q3 (i) \rightarrow Cont \rightarrow .

(ii) If 6 more white balls are put in the bag, the probability of drawing a white ball will be double than that in part (i). Find x .

(Q4) A bag contains 5 red balls and some blue balls. If the probability of drawing a blue ball is double that of a red ball, find the number of blue balls in the bag.

(Q5) Three coins are tossed once. Find the probability of at most 3 tails.

(Q6) A die is tossed twice. Find the probability that

(i) Sum of the numbers is 10

(ii) odd number on 1st die

Cont-Pg-3

(Q7) one Card is drawn from a well shuffled deck of 52 Cards. Find the probability that the Card is a Spade

(Q8) 1500 families with 3 children were selected randomly and following data were recorded

No. of boys in the family	0	1	2	3
No. of families	150	311	475	564

If a family is chosen at random, Find the probability that it has

- (i) No Boy
- (ii) at most one boy

(Q9) In a school, there are 2000 students out of these students 1500 like Maths. Find the probability who dislike Maths.

(Q10) A pair of dice is thrown. Write its Sample Space.

ANSWERS

(Q1) 0.98	Q3(ii) $n=3$	(Q7) $\frac{1}{4}$	(Q9) $\frac{1}{4}$
(Q2) (i) .01	(Q4) 10	(Q8) (i) $\frac{1}{10}$	(Q10) -
(ii) .09	(Q5) 1	(ii) $\frac{461}{1500}$	
(iii) .09	(Q6) $\frac{1}{12}, \frac{1}{2}$		
(Q3) (i) $\frac{2}{12}$			