Probability Sample Problems

Abdullah Al Mahmud

10/7/2021

Digit and Number Problem

- 1. Out of the natural numbers 10 through 30, a number is chosen randomly; what is the probability that the number is
 - a. a prime number
 - b. a prime number or multiple of 5
 - c. a prime number or an odd number
 - d. not a perfect square

Coin Problems

- 1. An unbiased coin is tossed thrice. Find the probability that
 - a. All three are Heads?
 - b. There are more than one Head?
 - c. The second draw gives a Head?
 - d. The third draw does not give a head?
 - e. The first draw gives a Tail but the Draw does not?
 - f. At most one Head appears?
 - g. At least one head appears
- 2. An unbiased coin is tossed ten times. Find the probability that there are
 - a. just three heads
 - b. at least 1 head
 - c. at most 2 heads

Die Problems

- 1. Two dice are thrown at once. Find the probability that
 - a. The first numbers is odd?
 - b. The summation of numbers in two draws is a prime number?
 - c. Both numbers are same?
 - d. The second number is bigger?
 - e. Total of the numbers is 8
 - f. Sum of numbers is greater than 5

Card Problems

- 1. 3 cards are drawn from a pack of 52 cards. What is the probability that they are all Kings?
- 2. Two cards are drawn with replacement; What is the probability that they are
 - a. Kings of same color

- b. Kings of different colorc. Not Kings at all