**Problem Statement 1**

A test is conducted which is consisting of 20 MCQs (multiple choices questions) with

Every MCQ having its four options out of which only one is correct. Determine the

Probability that a person undertaking that test has answered exactly 5 questions wrong.

**Solution:**

Probability of right answer :1/4

Probability of wrong answer: 3/4

Probability of getting 5 wrong answer in 20 MCQ

=3/4\*3/4\*3/4\*3/4\*3/4\*=

**Problem Statement 2**

A die marked A to E is rolled 50 times. Find the probability of getting a “D” exactly 5

Times.

**Solution:**

Probability of getting D=1/5

Probability of not getting D=4/5

Probability of getting D 5 times = =1/5\*1/5\*1/5\*1/5\*1/5\*=

**Problem Statement 3**

Two balls are drawn at random in succession without replacement from an urn

Containing 4 red balls and 6 black balls.

Find the probabilities of all the possible outcomes.

**Solution:**

1 Red 0 Black= 4/10\*3/9=4/30

1 Red 1 Black=4/10\*6/9=4/15

0 Read 2 Black=6/10\*5/9=1/3