**Problem Statement 1:**

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

**Solution:**

Here,

n = 50,

k = 5,

n - k = 45.

The probability of success = probability of getting a “D”= **S** = 1/5

Hence, the probability of failure = probability of not getting a “D” = 1 -**S** = 4/5.