**Assignment 17.2**

# Problem Statement 1:

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

times.

Answer :

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

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C (50, 5) \* (1/5) 5 \* (4/5)45 = 0.0295 times approx.