from the container, it would not be unlikely that two, three, or even no black marbles would be among them, even though the "expected" number would be one. On the other hand, if all ten were to be black, that sample would unquestionably be "extraordinary". The following tabulation shows a calculation of the probability that a given number of black marbles will be found in a sample of ten:

No. of Black Marbles in Sample	Probability
0	.3486784401
1	.3874204890
2	.1937102445
3	.0573956280
4	.0111602610
5	.0014880348
6	.0001377810
7	.0000087480
8	.0000003645
9	.0000000090
10	.0000000001
Total	1.0000000000

From these probabilities, it is evident that one might expect a sample of ten to include no black marbles or one, two, or three, but for the sample to consist entirely of black marbles would be expected only once in ten billion trials. Finding three black marbles in the sample would be expected in almost six samples out of 100, and it would be anticipated that the sample would contain four or more black