

## UNIVERSIDAD PRIVADA DEL NORTE

FORMAMOS LIDERES CON RESPONSABILIDAD SOCIAL

## $P[X \le x] = \sum_{x}^{n} {n \choose x} p^{x} (1-p)^{n-x}$

											р									
n	X	0.01	0.02	0.04	0.05	0.06	0.08	0.1	0.12	0.14	0.15	0.16	0.18	0.2	0.24	0.25	0.3	0.4	0.45	0.5
2	0	0.9801	0.9604	0.9216	0.9025	0.8836	0.8464	0.8100	0.7744	0.7395	0.7225	0.7056	0.6724	0.6400	0.5776	0.5625	0.4900	0.3600	0.3025	0.2500
	2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3	0	0.9703	0.9412	0.8847	0.8574	0.8306	0.7787	0.7290	0.6815	0.6361	0.6141	0.5927	0.5514	0.5120	0.4390	0.4219	0.3430	0.2160	0.1664	0.1250
	2	1.0000	1.0000	0.9953	0.9928	0.9896	0.9818	0.9720	0.9603	0.9467	0.9393	0.9314	0.9145	0.8960	0.8548	0.8438	0.7840	0.6480	0.5748	0.5000
	3	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	0	0.9606	0.9224	0.8493	0.8145	0.7807	0.7164	0.6561	0.5997	0.5470	0.5220	0.4979	0.4521	0.4096	0.3336	0.3164	0.2401	0.1296	0.0915	0.0625
	2	1.0000	1.0000	0.9998	0.9995	0.9992	0.9981	0.9963	0.9937	0.9902	0.9880	0.9856	0.9798	0.9728	0.9547	0.9492	0.9163	0.8208	0.7585	0.6875
	3	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9995	0.9993	0.9990	0.9984	0.9967	0.9961	0.9919	0.9744	0.9590	0.9375
5	0	0.9510	0.9039	0.8154	0.7738	0.7339	1.0000	1.0000	0.5277	0.4704	0.4437	0.4182	0.3707	0.9277	0.2536	0.2373	0.1681	1.0000	0.0503	0.0313
	1	0.9990	0.9962	0.9852	0.9774	0.9681	0.9456	0.9185	0.8875	0.8533	0.8352	0.8165	0.7776	0.7373	0.6539	0.6328	0.5282	0.3370	0.2562	0.1875
	2	1.0000	0.9999	0.9994	0.9988	0.9980	0.9955	0.9914	0.9857	0.9780	0.9734	0.9682	0.9553	0.9421	0.9067	0.8965	0.8369	0.6826	0.5931	0.5000
	4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9983	0.9978	0.9971	0.9955	0.9933	0.9966	0.9844	0.9692	0.9130	0.8688	0.8125
	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6	0	0.9415	0.8858	0.7828	0.7351	0.6899	0.6064	0.5314	0.4644	0.4046	0.3771	0.3513	0.3040	0.2521	0.1927	0.1780	0.1176	0.0467	0.0277	0.0156
	2	1.0000	0.9998	0.9988	0.9978	0.9962	0.9915	0.9842	0.9739	0.9605	0.9527	0.9440	0.9241	0.9011	0.8461	0.8306	0.7443	0.5443	0.4415	0.3438
	3	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9987	0.9975	0.9955	0.9941	0.9925	0.9884	0.9830	0.9574	0.9524	0.9295	0.8208	0.7447	0.6563
	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	1.0000	1.0000	1.0000	0.9984	0.9962	0.9954	0.9891	0.9590	0.9308	0.8906
	6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
7	0	0.9321	0.8681	0.7514	0.6983	0.6485	0.5578	0.4783	0.4087	0.3479	0.3206	0.2951	0.2493	0.2097	0.1465	0.1335	0.0824	0.0280	0.0152	0.0078
	2	1.0000	0.9997	0.9980	0.9962	0.9937	0.9860	0.9743	0.9584	0.9380	0.9262	0.9134	0.8846	0.8520	0.7769	0.7564	0.6471	0.4199	0.3164	0.2266
	3	1.0000	1.0000	0.9999	0.9998	0.9996	0.9988	0.9973	0.9946	0.9905	0.9879	0.9847	0.9769	0.9667	0.9383	0.9294	0.8740	0.7102	0.6083	0.5000
	5	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9988	0.9983	0.9971	0.9953	0.9893	0.9871	0.9712	0.9037	0.8471	0.7734
	6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9984	0.9963	0.9922
L.	7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	1	0.9227	0.8508	0.7214	0.6634	0.6096	0.5132	0.4305	0.3596	0.2992	0.2725	0.2479	0.2044	0.1678	0.1113	0.1001	0.0576	0.1064	0.0084	0.0039
	2	0.9999	0.9996	0.9959	0.9942	0.9904	0.9789	0.9619	0.9392	0.9109	0.8948	0.8774	0.8392	0.7969	0.7033	0.6785	0.5518	0.3154	0.2201	0.1445
	3	1.0000	1.0000	0.9998	0.9996	0.9993	0.9978	0.9950	0.9903	0.9832	0.9786	0.9733	0.9603	0.9437	0.8996	0.8862	0.8059	0.5941	0.4770	0.3633
	5	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9990	0.9979	0.9971	0.9962	0.9935	0.9896	0.9770	0.9727	0.9420	0.8263	0.7396	0.6367
	6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9996	0.9987	0.9915	0.9819	0.9648
	8	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9	0	0.9135	0.8337	0.6925	0.6302	0.5730	0.4722	0.3874	0.3165	0.2573	0.2316	0.2082	0.1676	0.1342	0.0846	0.0751	0.0404	0.0101	0.0046	0.0020
	1 2	0.9966	0.9869	0.9522	0.9288	0.9022	0.8417	0.7748	0.7049	0.5343	0.5995	0.5652	0.4988	0.4362	0.3250	0.3003	0.1960	0.0705	0.0385	0.0195
	3	1.0000	1.0000	0.9955	0.9916	0.9862	0.9702	0.9470	0.9167	0.8798	0.8591	0.8371	0.7895	0.7382	0.6287	0.6007	0.4628	0.2318	0.1495	0.0898
	4	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9991	0.9979	0.9959	0.9944	0.9925	0.9875	0.9804	0.9584	0.9511	0.9012	0.7334	0.6214	0.5000
	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9996	1.0000	0.9991	0.9983	0.9969	0.9919	0.9900	0.9747	0.9006	0.8342	0.7461
	7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9996	0.9962	0.9909	0.9805
	8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9992	0.9980
10	0	0.9044	0.8171	1.0000 0.6648	0.5987	1.0000	0.4344	1.0000	0.2785	0.2213	0.1969	0.1749	0.1374	0.1074	0.0643	0.0563	0.0282	1.0000	0.0025	0.0010
	1	0.9957	0.9838	0.9418	0.9139	0.8824	0.8121	0.7361	0.6583	0.5816	0.5443	0.5080	0.4392	0.3758	0.2673	0.2440	0.1493	0.0464	0.0233	0.0107
	2	1.0000	1,0000	0.9938	0.9885	0.9812	0.9599	0.9298	0.8913	0.8455	0.8202	0.7936	0.7372	0.6778	0.5558	0.5256	0.3828	0.1673	0.0996	0.0547
	4	1.0000	1.0000	1.0000	0.9999	0.9998	0.9994	0.9984	0.9963	0.9927	0.9901	0.9870	0.9787	0.9672	0.9330	0.9219	0.8497	0.6331	0.5044	0.3770
	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9990	0.9986	0.9980	0.9953	0.9936	0.9839	0.9803	0.9527	0.8338	0.7384	0.6230
	7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9991	0.9973	0.9965	0.9894	0.9452	0.8980	0.8281
	8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9983	0.9955	0.9893
	9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9990
11	0	0.8953	0.8007	0.6382	0.5688	0.5063	0.3996	0.3138	0.2451	0.1903	0.1673	0.1469	0.1127	0.0859	0.0489	0.0422	0.0198	0.0036	0.0014	0.0005
	1 2	0.9948	0.9805	0.9308	0.8981	0.8618	0.7819	0.6974	0.6127	0.5311	0.4922	0.4547	0.3849	0.3221	0.2186	0.1971	0.1130	0.0302	0.0139	0.0059
	3	1.0000	1.0000	0.9917	0.9848	0.9752	0.9481	0.9104	0.9659	0.8085	0.7788	0.7479	0.6836	0.6174	0.7404	0.4552	0.3127	0.1189	0.0652	0.0327
	4	1.0000	1.0000	1.0000	0.9999	0.9997	0.9990	0.9972	0.9939	0.9881	0.9841	0.9793	0.9656	0.9496	0.9008	0.8854	0.7897	0.5328	0.3971	0.2744
	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9992	0.9982	0.9973	0.9963	0.9932	0.9883	0.9717	0.9657	0.9218	0.7535	0.6331	0.5000
	7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9991	0.9988	0.9957	0.9707	0.9390	0.8867
	8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9994	0.9941	0.9852	0.9673
	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9978	0.9941
	11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1,0000	1.0000	1.0000
	P	0.01	0.02	0.04	0.05	0.06	0.08	0.1	0.12	0.14	0.15	0.16	0.18	0.2	0.24	0.25	0.3	0.4	0.45	0.5