

TABLE 1 Cumulative Binomial Probabilities Tabulated values are $P(x \le k) = p(0) + p(1) + \cdots + p(k)$ (Computations are rounded at the third decimal place.)

n =	2													—
							p							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.980	.902	.810	.640	.490	.360	.250	.160	.090	.040	.010	.002	.000	0
1	1.000	.998	.990	.960	.910	.840	.750	.640	.510	.360	.190	.098	.020	1
2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
n =	3													
							P							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
	.970	.857	.729	.512	.343	.216	.125	.064	.027	.008	.001	.000	.000	0
0	1.000	.993	.972	.896	.784	.648	.500	.352	.216	.104	.028	.007	.000	1
	1.000	1.000	.999	.992	.973	.936	.875	.784	.657	.488	.271	.143	.030	2
2 3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3
n=	= 4	,							,					
		,					p							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	A
0	.961	.815	.656	.410	.240	.130	.062	.026	.008	.002	.000	.000	.000	9
1	.999	.986	.948	.819	.652	.475	.312	.179	.084	.027	.004	.000	.000	1
2	1.000	1.000	.996	.973	.916	.821	.688	.5 25	.348	.181	.052	.014	.001	3
3	1.000	1.000	1.000	.998	.992	.974	.938	.870	.760	.590	.344	.185	.039	
4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	4

TABLE 1 (continued)

n =	: 5
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		1					P							
:	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	
	.951	.774	.590	.328	.168	.078	.031	.010	.002	.000	.000	.000	000	
	.999	.977	.919	.737	.528	.337	.188	.087	.031	.007	.000		.000	1
	1.000	.999	.991	.942	.837	.683	.500	.317	.163	.058		.000	.000	
	1.000	1.000	1.000	.993	.969	.913	.812	.663			.009	.001	.000	- 7
	1.000	1.000	1.000	1.000	.998				.472	.263	.081	.023	.001	
	1.000	1.000				.990	.969	.922	.832	.672	.410	.226	.049	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	!
=	6								,			*********		

n	=	ŧ

							P							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.941	.735	.531	.262	.118	.047	.016	.004	.001	000	222			
1	.999	.967	.886	.655	.420		.109			.000	.000	.000	.000	0
2	1.000	.998	.984			(233)		.041	.011	.002	.000	.000	.000	1
_				.901	.744	.544	.344	.179	.070 -	.017	.001	.000	.000	2
3	1.000	1.000	.999	.983	.930	.821	.656	.456	.256	.099	.016			
4	1.000	1.000	1.000	998	.989	.959	.891		-	-		.002	.000	3
5	1.000	1.000			_			.767	.580	.345	.114	.033	.001	4
_		-	1.000	1.000	.999	.996	.984	.953	.882	.738	.469	.265	.059	Ē
6	² 1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					-
							1.500	1.000	1.000	1.000	1.000	1.000	1.000	6

n = 7

	-						P							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.932	.698	.478	.210	.082	.028	.008	.002	.000	.000	.000	.000	.000	
1	.998	.956	.850	. 577	.329	.159	.062	.019	.004	.000	.000	.000	.000	1
2	1.000	.996	.974	.852	.647	.420	.227	.096	.029	.005	.000	.000	.000	
3	1.000	1.000	.997	.967	.874	.710	.500	.290	.126	.033	.003	.000		2
4	1.000	1.000	1.000	.995	.971	.904	.773	.580	.353	.148	.026		.000	3
5	1.000	1.000	1.000	1.000	.996	.981	.938	.841	.671	.423		.004	.000	4
6	1.000	1.000	1.000	1.000	1.000	.998	.992	.972	.918		.150	.044	.002	5
7	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.790 1.000	.522 1.000	.302 1.000	.068 1.000	6 7

n = 8

							P	in the second	toa ya			e produce de	11.00	•
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.923	.663	.430	.168	.058	.017	.004	.001	.000	.000	.000	.000	.000	0
2	.997 1.000	.943	.813	.503	.255	.106	.035	.009	.001	.000	.000	.000	.000	1
3	1.000	.994 1.000	.962 .995	.797	.552	.315	.145	.050	.011	.001	.000	.000	.000	2
. 4	1.000	1.000	1.000	.944 .990	.806	.594	.363	.174	.058	.010	.000	.000	.000	3
5	1.000	1.000	1.000	.999	.942	.826	.637	.406	.194	.056	.005	.000	.000	4
6	1.000	1.000	1.000	1.000	.989	.950	.855	.685	.448	.203	.038	.006	.000	5
7	1.000	1.000	1.000	1.000	.999 1.000	.991	.965	.894	.745	497	.187	.057	.003	6
8	1.000	1.000	1.000	1.000	1.000	.999	.996	.983	.942	.832	.570	.337	.077	7
_		1.500	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	8

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TABLE 1 (continued)

n	=	9

							p							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.914	.630	.387	.134	.040	.010	.002	.000	.000	.000	.000	.000	.000	0
1	.997	.929	.775	.436	.196	.071	.020	.004	.000	.000	.000	.000	.000	1
2	1.000	.992	.947	.738	.463	.232	.090	.025	.004	.000	.000	.000	.000	2
3	1.000	.999	.992	.914	.730	.483	.254	.099	.025	.003	.000	.000	.000	3
4	1.000	1.000	.999	.980	.901	.733	.500	.267	.099	.020	.001	.000	.000	4
5	1.000	1.000	1.000	.997	.975	.901	.746	.517	.270	.086	.008	.001	.000	5
6	1.000	1.000	1.000	1.000	.996	.975	.910	.768	.5 3 7	.262	.053	.008	.000	6
7	1.000	1.000	1.000	1.000	1.000	996	.980	.929	.804	.564	.225	.071	.003	7
•	1.000	1.000	1.000	1.000	1.000	1.000	.998	.990	.960	.866	.613	.370	.086	8
. 8 . 9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	9

n = 10

							p							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.904	.599	.349	.107	.028	.006	.001	.000	.000	.000	.000	.000	.000	0
1	.996	.914	.736	.376	.149	.046	.011	.002	.000	.000	.000	.000	.000	1
2	1.000	.988	.930	.678	.383	.167	.055	.012	.002	.000	.000	.000	.000	2
3	1.000	.999	.987	.879	.650	.382	.172	.055	.011	.001	.000	.000	.000	3
4	1.000	1.000	.998	.967	.850	.633	.377	.166	.047	.006	.000	.000	.000	4
5	1.000	1.000	1.000	.994	.953	.834	.623	.367	.150	.0 3 3	.002	.000	.000	5
6	1.000	1.000	1.000	.999	.989	.945	.828	.618	.350	.121	.013	.001	.000	6
7	1.000	1.000	1.000	1.000	.998	.988	.945	.833	.617	.322	.070	.012	.000	7
8	1.000	1.000	1.000	1.000	1.000	.998	.989	.954	.851	.624	.264	.086	.004	8
9	1.000	1,000	1.000	1.000	1.000	1.000	.999	.994	.972	.893	.651	.401	.096	9
10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	10

n = 11

					р										
k	.01	.05	∙ .10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k	
0	.895	.569	.314	.086	.020	.004	.000	.000	.000	.000	.000	.000	.000	0	
1	.995	.898	.697	.322	.113	.030	.006	.001	.000	.000	.000	.000	.000	1	
2	1.000	.985	.910	.617	.313	.119	.033	.006	.001	.000	.000	.000	.000	2	
3	1.000	.998	.981	.839	.570	.296	.113	.029	.004	.000	.000	.000	.000	3	
-	1.000	1.000	.997	.950	.790	.533	.274	.099	.022	.002	.000	.000	.000	4	
4 5	1.000	1.000	1.000	.988	.922	.754	.500	.246	.078	.012	.000	.000	.000	5	
_	1.000	1.000	1.000	.998	.978	.901	.726	.467	.210	.050	.003	.000	.000	6	
6		1.000	1.000	1.000	.996	.971	.887	.704	.430	.161	.019	.002	.000	7	
7	1.000	1.000	1.000	1.000	.999	.994	.967	.881	.687	.383	.090	.015	.000	8	
8	1.000			1.000	1.000	.999	.994	.970	.887	.678	.303	.102	.005	9	
9	1.000	1.000	1.000		-	1.000	1.000	.996	.980	.914	.686	.431	.105	10	
10	1.000	1.000	1.000	1.000	1.000		1.000	1.000	1.000	1,000	1.000	1.000	1,000	11	
11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1,000		1.500			

TABLE 1 (continued)

n = 12

							р							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.886	.540	.282	.069	.014	.002	.000	.000	.000	.000	.000	.000	.000	0
1	.994	.882	.659	.275	.085	.020	.003	.000	.000	.000	.000	.000	.000	1
2	1.000	.980	.889	.558	.253	.083	.019	.003	.000	.000	.000	.000	.000	2
3	1.000	.998	.974	.795	.493	.225	.073	.015	.002	.000	.000	.000	.000	3
4	1.000	1.000	.996	.927	.724	.438	.194	.057	.009	.001	.000	.000	.000	4
5	1.000	1.000	.999	.981	.882	.665	.387	.158	.039	.004	.000	.000	.000	5
6	1.000	1.000	1.000	.996	.961	.842	.613	.335	.118	.019	.001	.000	.000	6
7	1.000	1.000	1.000	.999	.991	.943	.806	.562	.276	.073	.004	.000	.000	7
8	1.000	1.000	1.000	1.000	.998	.985	.927	.775	.507	.205	.026	.002	.000	8
9	1.000	1.000	1.000	1.000	1.000	.997	.981	.917	.747	.442	111	.020	.000	9
10	1.000	1.000	1.000	1.000	1.000	1.000	.997	.980	.915	.725	.341	.118	.006	10
11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.998	.986	931	.718	.460	.114	11
12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	12

n = 15

							P							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.860	.463	.206	.035	.005	.000	000	.000	.000	.000	.000	.000	.000	0
1	.990	.829	.549	.167	.035	.005	.000	.000	.000	.000	.000	.000	.000	1
2	1.000	.964	.816	.398	.127	.027	.004	.000	.000	.000	.000	.000	.000	2
3	1.000	.995	.944	.648	.297	.091	.018	.002	.000	.000	.000	.000	.000	3
4	1.000	.999	.987	.836	.515	.217	.059	.009	.001	.000	.000	.000	.000	4
5	1.000	1,000	.998	.939	.722	.403	.151	.034	.004	.000	.000	.000	.000	5
6	1.000	1.000	1.000	.982	.869	.610	.304	.095	.015	.001	.000	.000	.000	6
7	1.000	1.000	1.000	.996	.950	.787	.500	.213	.050	.004	.000	.000	.000	7
8	1.000	1.000	1.000	.999	.985	.905	.696	.390	.131	.018	.000	.000	.000	8
9	1.000	1.000	1.000	1.000	.996	.966	.849	.597	.278	.061	.002	.000	.000	9
10	1.000	1.000	1.000	1.000	.999	.991	.941	.783	.485	.164	.013	.001	.000	10
11	1.000	1.000	1.000	1.000	1.000	.998	.982	.909	.703	.352	.056	.005	.000	11
12	1.000	1.000	1.000	1.000	1.000	1.000	.996	.973	.873	.602	.184	.036	.000	12
13	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.995	.965	.83 3	.451	.171	.010	13
14	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.995	.965	.794	.537	.140	14
15	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	15

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TABLE 1 (continued)

n = 20

							p							
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.818	.358	.122	.012	.001	.000	.000	.000	.000	.000	.000	.000	.000	0
1	.983	.736	.392	.069	.008	.001	.000	.000	.000	.000	.000	.000	.000	1
2	.999	.925	.677	.206	.035	.004	.000	.000	.000	.000	.000	.000	.000	` 2
3	1.000	.984	.867	.411	.107	.016	.001	.000	.000	.000	.000	.000	.000	3
4	1.000	.997	.957	.630	.238	.051	.006	.000	.000	.000	.000	.000	.000	4
5	1.000	1.000	.989	.804	.416	.126	.021	.002	.000	.000	.000	.000	.000	5
6	1.000	1.000	.998	.913	.608	.250	058	.006	.000	.000	.000	.000	.000	6
7	1.000	1.000	1.000	.968	.772	.416	.132	.021	.001	.000	.000	.000	.000	7
8	1.000	1.000	1.000	.990	.887	.596	.252	.057	.005	.000	.000	.000	.000	8
9	1.000	1.000	1.000	.997	.952	.755	.412	.128	.017	.001	.000	.000	.000	9
10	1.000	1.000	1.000	.999	.983	.872	.588	.245	.048	.003	.000	.000	.000	10
11	1.000	1.000	1.000	1.000	.995	.943	.748	.404	.113	.010	.000	.000	.000	11
12	1.000	1.000	1.000	1.000	.99 9	.979	.868	.584	.228	.032	.000	.000	.000	12
13	1.000	1.000	1.000	1.000	1.000	.994	.942	.750	.392	.087	.002	.000	.000	13
14	1.000	1.000	1.000	1.000	1.000	.998	.979	.874	.584	.196	.011	.000	.000	14
15	1.000	1.000	1.000	1.000	1.000	1.000	.994	.949	.762	.370	.043	.003	.000	15
16	1.000	1.000	1.000	1.000	1.000	1.000	.99 9	.984	.893	.589	.133	.016	.000	16
17	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.996	.965	.794	.323	.075	.001	17
18	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.999	.992	.931	.608	.264	.017	18
19	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.999	.988	.878	.642	.182	19
20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	20

TABLE 1 (continued)

n = 25

							p					·····		
k	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99	k
0	.778	.277	.072	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1	.974	.642	.271	.027	.002	.000	.000	.000	.000	.000	.000	.000	.000	1
2	.998	.873	.537	.098	.009	.000	.000	.000	.000	.000	.000	.000	.000	2
3	1.000	.966	.764	.234	.033	.002	.000	.000	.000	.000	.000	.000	.000	3
4	1.000	.993	.902	.421	.090	.009	.000	.000	.000	.000	.000	.000	.000	4
5	1.000	.999	.967	.617	.193	.029	.002	.000	.000	.000	.000	.000	.000	5
6	1.000	1.000	.991	.780	.341	.074	.007	.000	.000	.000	.000	.000	.000	6
7	1.000	1.000	.998	.891	.512	.154	.022	.001	.000	.000	.000	.000	.000	7
8	1.000	1.000	1.000	.953	.677	.274	.054	.004	.000	.000	.000	.000	.000	8
9	1.000	1.000	1.000	.983	.811	.425	.115	.013	.000	.000	.000	.000	.000	9
10	1.000	1.000	1.000	.994	.902	.586	.212	.034	.002	.000	.000	.000	.000	10
11	1.000	1.000	1.000	.998	.956	.732	.345	.078	.006	.000	.000	.000	.000	11
12	1.000	1.000	1.000	1.000	.983	.846	.500	.154	.017	.000	.000	.000	.000	12
13	1.000	1.000	1.000	1.000	.994	.922	.655	.268	.044	.002	.000	.000	.000	13
14	1.000	1.000	1.000	1.000	.998	.966	.788	.414	.098	.006	.000	.000	.000	14
15	1.000	1.000	1.000	1.000	1.000	.987	.885	.575	.189	.017	.000	.000	.000	15
16	1.000	1.000	1.000	1.000	1.000	.996	.946	.726	.323	.047	.000	.000	.000	16
17	1.000	1.000	1.000	1.000	1.000	.999	.978	.846	.488	.10 9	.002	.000	.000	17
18	1.000	1.000	1.000	1.000	1.000	1.000	.993	.926	.659	.220	.009	.000	.000	18
19	1.000	1.000	1.000	1.000	1.000	1.000	.998	.971	.807	.383	.033	.001	.000	19
20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.991	.910	.57 9	.098	.007	.000	20
21	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.998	.967	.766	.236	.034	.000	21
22	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.991	.902	.463	.127	.002	22
23	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.998	.973	.72 9	.358	.026	23
24	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.996	.928	.723	.222	24
25	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	25

NEL

TABLE 2 Cumulative Poisson Probabilities Tabulated values are $P(x \le k) = p(0) + p(1) + \cdots + p(k)$ (Computations are rounded at the third decimal place.)

	μ										
k	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.5
0	.905	.819	.741	.670	.607	.549	.497	.449	.407	.368	.223
1	.995	.982	.963	.938	.910	.878	.844	.809	.772	.736	.55 8
2	1.000	.999	.996	.992	.986	.977	.9 66	.953	.937	.920	.809
2	1.000	1.000	1.000	.999	.998	.997	.994	.991	.987	.981	.934
3		1.000	1.000	1,000	1.000	1.000	.999	.999	.998	.996	.981
4		•		1,000	1.000	1.000	1.000	1.000	1.000	.999	.996
5										1.000	.99 9
6						•					1.000

						μ .					
k	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
0	.135	.082	.055	.033	.018	.011	.007	.004	.003	.002	.001
1	.406	.287	.199	.136	.092	.061	040	.027	.017	.011	.007
2	.677	.544	.423	.321	.238	.174	.125	.088	.062	.043	.030
3	.857	.758	.647	.537	.433	.342	.265	.202	.151	.112	.082
4	.947	.891	.815	.725	.62 9	.532	.440	.358	.285	.224	.173
5	.983	.958	.916	.858	.785	.703	.616	.529	.446	.369	.301
6	.995	986	.966	.935	.889,	.831	.762	.686	.606	.563	.450
7	.999	.996	.988	.973	.949	.913	.867	.809	.744	.673	.599
8	1.000	.999	.996	.990	.979	.960	.932	.894	.847	.792	.729
9		1.000	.999	.997	.992	.983	.9 68	.946	.916	.877	.830
10			1.000	.999	.997	.993	.986	.975	.957	.933	.901
11				1.000	.999	.998	.9 9 5	.989	.980	.966	.947
12					1.000	.999	.998	.996	.991	.984	.973
13						1.000	.999	.998	.996	.993	.9 8 7
14							1.000	.999	.999	.9 97	.994
15								1.000	.999	.99 9	.998
16									1.000	1.000	.999
17											1.000

TABLE 2 (continued)

k	7.5				μ				
0		8.0	8.5	9.0	9.5	10.0	12.0	15.0	20.
1	.001 .005	.000	.000	.000	.000	.000	.000		
2	.020	.003	.002	.001	.001	.000	.000	.000	.00
3	.059	.014	.009	.006	.004	.003	.000	.000	.00
4	.132	.042	.030	.021	.015	.010	.002	.000	.00
5	.241	.100	.074	.055	.040	.029	.002	.000	.00
6	.378	.191	.150	.116	.089	.067	.020	.001	.00
7	.525	.313	.256	.207	.165	.130		.003	.00
8	.662	.453	.386	.324	.269	.220	.046	.008	.00
9		.593	.523	.456	.392	.333	.090	.018	.00
10	.776	.717	.653	.587	.522	.458	.155	.037	.00
11	.862	.816	.763	.706	.645	.583	.242	.070	.00!
12	.921	.888	.849	.803	.752	.697	.347	.118	.011
13	.957	936	.909	.876	.836	.792	.462	.185	.021
14	.978	.966	.949	.926	.898	.792 .864	.576	.268	.039
15	.990	.983	.973	.959	.940		.682	.363	.066
	.995	.992	.986	.978	.967	.917	.772	.466	.105
16 17	.998	.996	.9 9 3	.989	.982	.951	.844	.568	.157
	.999	.998	.997	.995	.991	.973	.899	.664	.221
18	1.000	.9 9 9	.999	.998	. 99 6	.986	.937	.749	.297
19		1.000	.999	.999	.998	.993	.963	.819	.381
20			1.000	1.000	.999 .999	.997	.979	.875	.470
21			•		1.000	.998	.9 88	.917	.559
22					1.000	.999	.994	.947	.644
23						1.000	.997	.967	.721
24					*		.999	.981	.787
!5							.999	.989	.843
26							1.000	.994	.888
!7								.997	.922
8								.998	.948
9	-							.999	
0								1.000	.966
1								1.000	.978
2									.987
3									.992
4									.995
5		•							.9 9 7
5									.999
							•		.999
			,						1.000

6, mu = 1hr.

EL