

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 2$	$r = 0$	$1$	$n = 3$	$r = 0$	$1$	$2$
$p = 0.01$	0.9801	0.9999	$p = 0.01$	0.9703	0.9997	
$0.02$	.9604	.9996	$0.02$	.9412	.9988	
$0.03$	.9409	.9991	$0.03$	.9127	.9974	
$0.04$	.9216	.9984	$0.04$	.8847	.9953	0.9999
$0.05$	0.9025	0.9975	$0.05$	0.8574	0.9928	0.9999
$0.06$	.8836	.9964	$0.06$	.8306	.9896	.9998
$0.07$	.8649	.9951	$0.07$	.8044	.9860	.9997
$0.08$	.8464	.9936	$0.08$	.7787	.9818	.9995
$0.09$	.8281	.9919	$0.09$	.7536	.9772	.9993
$0.10$	0.8100	0.9900	$0.10$	0.7290	0.9720	0.9990
$0.11$	.7921	.9879	$0.11$	.7050	.9664	.9987
$0.12$	.7744	.9856	$0.12$	.6815	.9603	.9983
$0.13$	.7569	.9831	$0.13$	.6585	.9537	.9978
$0.14$	.7396	.9804	$0.14$	.6361	.9467	.9973
$0.15$	0.7225	0.9775	$0.15$	0.6141	0.9393	0.9966
$0.16$	.7056	.9744	$0.16$	.5927	.9314	.9959
$0.17$	.6889	.9711	$0.17$	.5718	.9231	.9951
$0.18$	.6724	.9676	$0.18$	.5514	.9145	.9942
$0.19$	.6561	.9639	$0.19$	.5314	.9054	.9931
$0.20$	0.6400	0.9600	$0.20$	0.5120	0.8960	0.9920
$0.21$	.6241	.9559	$0.21$	.4930	.8862	.9907
$0.22$	.6084	.9516	$0.22$	.4746	.8761	.9894
$0.23$	.5929	.9471	$0.23$	.4565	.8656	.9878
$0.24$	.5776	.9424	$0.24$	.4390	.8548	.9862
$0.25$	.5625	0.9375	$0.25$	0.4219	0.8438	0.9844
$0.26$	.5476	.9324	$0.26$	.4052	.8324	.9824
$0.27$	.5329	.9271	$0.27$	.3890	.8207	.9803
$0.28$	.5184	.9216	$0.28$	.3732	.8087	.9780
$0.29$	.5041	.9159	$0.29$	.3579	.7965	.9756
$0.30$	0.4900	0.9100	$0.30$	0.3430	0.7840	0.9730
$0.31$	.4761	.9039	$0.31$	.3285	.7713	.9702
$0.32$	.4624	.8976	$0.32$	.3144	.7583	.9672
$0.33$	.4489	.8911	$0.33$	.3008	.7452	.9641
$0.34$	.4356	.8844	$0.34$	.2875	.7318	.9607
$0.35$	0.4225	0.8775	$0.35$	0.2746	0.7182	0.9571
$0.36$	.4096	.8704	$0.36$	.2621	.7045	.9533
$0.37$	.3969	.8631	$0.37$	.2500	.6906	.9493
$0.38$	.3844	.8556	$0.38$	.2383	.6765	.9451
$0.39$	.3721	.8479	$0.39$	.2270	.6623	.9407
$0.40$	0.3600	0.8400	$0.40$	0.2160	0.6480	0.9360
$0.41$	.3481	.8319	$0.41$	.2054	.6335	.9311
$0.42$	.3364	.8236	$0.42$	.1951	.6190	.9259
$0.43$	.3249	.8151	$0.43$	.1852	.6043	.9205
$0.44$	.3136	.8064	$0.44$	.1756	.5896	.9148
$0.45$	0.3025	0.7975	$0.45$	0.1664	0.5748	0.9089
$0.46$	.2916	.7884	$0.46$	.1575	.5599	.9027
$0.47$	.2809	.7791	$0.47$	.1489	.5449	.8962
$0.48$	.2704	.7696	$0.48$	.1406	.5300	.8894
$0.49$	.2601	.7599	$0.49$	.1327	.5150	.8824
$0.50$	0.2500	0.7500	$0.50$	0.1250	0.5000	0.8750

The function tabulated is

$$F(r|n, p) = \sum_{t=0}^r \binom{n}{t} p^t (1-p)^{n-t}$$

for  $r = 0, 1, \dots, n-1$ ,  $n \leq 20$  and  $p \leq 0.5$ ;  $n$  is sometimes referred to as the index and  $p$  as the parameter of the distribution.  $F(r|n, p)$  is the probability that  $X$ , the number of occurrences in  $n$  independent trials of an event with probability  $p$  of occurrence in each trial, is less than or equal to  $r$ ; that is,

$$\Pr \{X \leq r\} = F(r|n, p).$$

Note that

$$\Pr \{X \geq r\} = 1 - \Pr \{X \leq r-1\} = 1 - F(r-1|n, p).$$

$F(n|n, p) = 1$ , and the values for  $p > 0.5$  may be found using the result

$$F(r|n, p) = 1 - F(n-r-1|n, 1-p).$$

The probability of exactly  $r$  occurrences,  $\Pr \{X = r\}$ , is equal to

$$F(r|n, p) - F(r-1|n, p) = \binom{n}{r} p^r (1-p)^{n-r}.$$

Linear interpolation in  $p$  is satisfactory over much of the table but there are places where quadratic interpolation is necessary for high accuracy. When  $r = 0, 1$  or  $n-1$  a direct calculation is to be preferred:

$$F(0|n, p) = (1-p)^n,$$

$$F(1|n, p) = (1-p)^{n-1} [1 + (n-1)p]$$

and  $F(n-1|n, p) = 1 - p^n$ .

For  $n > 20$  the number of occurrences  $X$  is approximately normally distributed with mean  $np$  and variance  $np(1-p)$ ; hence, including  $\frac{1}{2}$  for continuity, we have

$$F(r|n, p) \doteq \Phi(s)$$

where  $s = \frac{r + \frac{1}{2} - np}{\sqrt{np(1-p)}}$  and  $\Phi(s)$  is the normal distribution function (see Table 4). The approximation can usually be improved by using the formula

$$F(r|n, p) \doteq \Phi(s) - \frac{\gamma}{6\sqrt{2\pi}} e^{-\frac{1}{2}s^2} (s^2 - 1)$$

where  $\gamma = \frac{1-2p}{\sqrt{np(1-p)}}$ .

An alternative approximation for  $n > 20$  when  $p$  is small and  $np$  is of moderate size is to use the Poisson distribution:

$$F(r|n, p) \doteq F(r|\mu)$$

where  $\mu = np$  and  $F(r|\mu)$  is the Poisson distribution function (see Table 2). If  $1-p$  is small and  $n(1-p)$  is of moderate size a similar approximation gives

$$F(r|n, p) \doteq 1 - F(n-r-1|\mu)$$

where  $\mu = n(1-p)$ .

Omitted entries to the left and right of tabulated values are 0 and 1 respectively, to four decimal places.

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$n = 4$					$n = 5$					
$p =$	$r = 0$	1	2	3	$p =$	$r = 0$	1	2	3	4
0.01	0.9606	0.9994			0.01	0.9510	0.9990			
0.02	.9224	.9977			0.02	.9039	.9962	0.9999		
0.03	.8853	.9948	0.9999		0.03	.8587	.9915	.9997		
0.04	.8493	.9909	.9998		0.04	.8154	.9852	.9994		
0.05	0.8145	0.9860	0.9995		0.05	0.7738	0.9774	0.9988		
0.06	.7807	.9801	.9992		0.06	.7339	.9681	.9980	0.9999	
0.07	.7481	.9733	.9987		0.07	.6957	.9575	.9969	.9999	
0.08	.7164	.9656	.9981		0.08	.6591	.9456	.9955	.9998	
0.09	.6857	.9570	.9973	0.9999	0.09	.6240	.9326	.9937	.9997	
0.10	0.6561	0.9477	0.9963	0.9999	0.10	0.5905	0.9185	0.9914	0.9995	
0.11	.6274	.9376	.9951	.9999	0.11	.5584	.9035	.9888	.9993	
0.12	.5997	.9268	.9937	.9998	0.12	.5277	.8875	.9857	.9991	
0.13	.5729	.9153	.9921	.9997	0.13	.4984	.8708	.9821	.9987	
0.14	.5470	.9032	.9902	.9996	0.14	.4704	.8533	.9780	.9983	0.9999
0.15	0.5220	0.8905	0.9880	0.9995	0.15	0.4437	0.8352	0.9734	0.9978	0.9999
0.16	.4979	.8772	.9856	.9993	0.16	.4182	.8165	.9682	.9971	.9999
0.17	.4746	.8634	.9829	.9992	0.17	.3939	.7973	.9625	.9964	.9999
0.18	.4521	.8491	.9798	.9990	0.18	.3707	.7776	.9563	.9955	.9998
0.19	.4305	.8344	.9765	.9987	0.19	.3487	.7576	.9495	.9945	.9998
0.20	0.4096	0.8192	0.9728	0.9984	0.20	0.3277	0.7373	0.9421	0.9933	0.9997
0.21	.3895	.8037	.9688	.9981	0.21	.3077	.7167	.9341	.9919	.9996
0.22	.3702	.7878	.9644	.9977	0.22	.2887	.6959	.9256	.9903	.9995
0.23	.3515	.7715	.9597	.9972	0.23	.2707	.6749	.9164	.9886	.9994
0.24	.3336	.7550	.9547	.9967	0.24	.2536	.6539	.9067	.9866	.9992
0.25	0.3164	0.7383	0.9492	0.9961	0.25	0.2373	0.6328	0.8965	0.9844	0.9990
0.26	.2999	.7213	.9434	.9954	0.26	.2219	.6117	.8857	.9819	.9988
0.27	.2840	.7041	.9372	.9947	0.27	.2073	.5907	.8743	.9792	.9986
0.28	.2687	.6868	.9306	.9939	0.28	.1935	.5697	.8624	.9762	.9983
0.29	.2541	.6693	.9237	.9929	0.29	.1804	.5489	.8499	.9728	.9979
0.30	0.2401	0.6517	0.9163	0.9919	0.30	0.1681	0.5282	0.8369	0.9692	0.9976
0.31	.2267	.6340	.9085	.9908	0.31	.1564	.5077	.8234	.9653	.9971
0.32	.2138	.6163	.9004	.9895	0.32	.1454	.4875	.8095	.9610	.9966
0.33	.2015	.5985	.8918	.9881	0.33	.1350	.4675	.7950	.9564	.9961
0.34	.1897	.5807	.8829	.9866	0.34	.1252	.4478	.7801	.9514	.9955
0.35	0.1785	0.5630	0.8735	0.9850	0.35	0.1160	0.4284	0.7648	0.9460	0.9947
0.36	.1678	.5453	.8638	.9832	0.36	.1074	.4094	.7491	.9402	.9940
0.37	.1575	.5276	.8536	.9813	0.37	.0992	.3907	.7330	.9340	.9931
0.38	.1478	.5100	.8431	.9791	0.38	.0916	.3724	.7165	.9274	.9921
0.39	.1385	.4925	.8321	.9769	0.39	.0845	.3545	.6997	.9204	.9910
0.40	0.1296	0.4752	0.8208	0.9744	0.40	0.0778	0.3370	0.6826	0.9130	0.9898
0.41	.1212	.4580	.8091	.9717	0.41	.0715	.3199	.6651	.9051	.9884
0.42	.1132	.4410	.7970	.9689	0.42	.0656	.3033	.6475	.8967	.9869
0.43	.1056	.4241	.7845	.9658	0.43	.0602	.2871	.6295	.8879	.9853
0.44	.0983	.4074	.7717	.9625	0.44	.0551	.2714	.6114	.8786	.9835
0.45	0.0915	0.3910	0.7585	0.9590	0.45	0.0503	0.2562	0.5931	0.8688	0.9815
0.46	.0850	.3748	.7450	.9552	0.46	.0459	.2415	.5747	.8585	.9794
0.47	.0789	.3588	.7311	.9512	0.47	.0418	.2272	.5561	.8478	.9771
0.48	.0731	.3431	.7169	.9469	0.48	.0380	.2135	.5375	.8365	.9745
0.49	.0677	.3276	.7023	.9424	0.49	.0345	.2002	.5187	.8248	.9718
0.50	0.0625	0.3125	0.6875	0.9375	0.50	0.0313	0.1875	0.5000	0.8125	0.9688

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 6$							$n = 7$				
$p =$	$r = 0$	1	2	3	4	5	$r = 0$	1	2	3	
0.01	0.9415	0.9985					0.9321	0.9980			
0.02	.8858	.9943	0.9998				.8681	.9921	0.9997		
0.03	.8330	.9875	.9995				.8080	.9829	.9991		
0.04	.7828	.9784	.9988				.7514	.9706	.9980	0.9999	
0.05	0.7351	0.9672	0.9978	0.9999			0.6983	0.9556	0.9962	0.9998	
0.06	.6899	.9541	.9962	.9998			.6485	.9382	.9937	.9996	
0.07	.6470	.9392	.9942	.9997			.6017	.9187	.9903	.9993	
0.08	.6064	.9227	.9915	.9995			.5578	.8974	.9860	.9988	
0.09	.5679	.9048	.9882	.9992			.5168	.8745	.9807	.9982	
0.10	0.5314	0.8857	0.9842	0.9987	0.9999		0.4783	0.8503	0.9743	0.9973	
0.11	.4970	.8655	.9794	.9982	.9999		.4423	.8250	.9669	.9961	
0.12	.4644	.8444	.9739	.9975	.9999		.4087	.7988	.9584	.9946	
0.13	.4336	.8224	.9676	.9966	.9998		.3773	.7719	.9487	.9928	
0.14	.4046	.7997	.9605	.9955	.9997		.3479	.7444	.9380	.9906	
0.15	0.3771	0.7765	0.9527	0.9941	0.9996		0.3206	0.7166	0.9262	0.9879	
0.16	.3513	.7528	.9440	.9925	.9995		.2951	.6885	.9134	.9847	
0.17	.3269	.7287	.9345	.9906	.9993		.2714	.6604	.8995	.9811	
0.18	.3040	.7044	.9241	.9884	.9990		.2493	.6323	.8846	.9769	
0.19	.2824	.6799	.9130	.9859	.9987		.2288	.6044	.8687	.9721	
0.20	0.2621	0.6554	0.9011	0.9830	0.9984	0.9999	0.2097	0.5767	0.8520	0.9667	
0.21	.2431	.6308	.8885	.9798	.9980	.9999	.1920	.5494	.8343	.9606	
0.22	.2252	.6063	.8750	.9761	.9975	.9999	.1757	.5225	.8159	.9539	
0.23	.2084	.5820	.8609	.9720	.9969	.9999	.1605	.4960	.7967	.9464	
0.24	.1927	.5578	.8461	.9674	.9962	.9998	.1465	.4702	.7769	.9383	
0.25	0.1780	0.5339	0.8306	0.9624	0.9954	0.9998	0.1335	0.4449	0.7564	0.9294	
0.26	.1642	.5104	.8144	.9569	.9944	.9997	.1215	.4204	.7354	.9198	
0.27	.1513	.4872	.7977	.9508	.9933	.9996	.1105	.3965	.7139	.9095	
0.28	.1393	.4644	.7804	.9443	.9921	.9995	.1003	.3734	.6919	.8984	
0.29	.1281	.4420	.7626	.9372	.9907	.9994	.0910	.3510	.6696	.8866	
0.30	0.1176	0.4202	0.7443	0.9295	0.9891	0.9993	0.0824	0.3294	0.6471	0.8740	
0.31	.1079	.3988	.7256	.9213	.9873	.9991	.0745	.3086	.6243	.8606	
0.32	.0989	.3780	.7064	.9125	.9852	.9989	.0672	.2887	.6013	.8466	
0.33	.0905	.3578	.6870	.9031	.9830	.9987	.0606	.2696	.5783	.8318	
0.34	.0827	.3381	.6672	.8931	.9805	.9985	.0546	.2513	.5553	.8163	
0.35	0.0754	0.3191	0.6471	0.8826	0.9777	0.9982	0.0490	0.2338	0.5323	0.8002	
0.36	.0687	.3006	.6268	.8714	.9746	.9978	.0440	.2172	.5094	.7833	
0.37	.0625	.2828	.6063	.8596	.9712	.9974	.0394	.2013	.4866	.7659	
0.38	.0568	.2657	.5857	.8473	.9675	.9970	.0352	.1863	.4641	.7479	
0.39	.0515	.2492	.5650	.8343	.9635	.9965	.0314	.1721	.4419	.7293	
0.40	0.0467	0.2333	0.5443	0.8208	0.9590	0.9959	0.0280	0.1586	0.4199	0.7102	
0.41	.0422	.2181	.5236	.8067	.9542	.9952	.0249	.1459	.3983	.6906	
0.42	.0381	.2035	.5029	.7920	.9490	.9945	.0221	.1340	.3771	.6706	
0.43	.0343	.1895	.4823	.7768	.9434	.9937	.0195	.1228	.3564	.6502	
0.44	.0308	.1762	.4618	.7610	.9373	.9927	.0173	.1123	.3362	.6294	
0.45	0.0277	0.1636	0.4415	0.7447	0.9308	0.9917	0.0152	0.1024	0.3164	0.6083	
0.46	.0248	.1515	.4214	.7279	.9238	.9905	.0134	.0932	.2973	.5869	
0.47	.0222	.1401	.4015	.7107	.9163	.9892	.0117	.0847	.2787	.5654	
0.48	.0198	.1293	.3820	.6930	.9083	.9878	.0103	.0767	.2607	.5437	
0.49	.0176	.1190	.3627	.6748	.8997	.9862	.0090	.0693	.2433	.5219	
0.50	0.0156	0.1094	0.3438	0.6562	0.8906	0.9844	0.0078	0.0625	0.2266	0.5000	

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 7$				$n = 8$							
$r = 4$	5	6		$r = 0$	1	2	3	4	5	6	
$p = 0.01$				$p = 0.01$	0.9227	0.9973	0.9999				
.02				.02	.8508	.9897	.9996				
.03				.03	.7837	.9777	.9987	0.9999			
.04				.04	.7214	.9619	.9969	.9998			
0.05				0.05	0.6634	0.9428	0.9942	0.9996			
.06				.06	.6096	.9208	.9904	.9993			
.07				.07	.5596	.8965	.9853	.9987	0.9999		
.08	0.9999			.08	.5132	.8702	.9789	.9978	.9999		
.09	.9999			.09	.4703	.8423	.9711	.9966	.9997		
0.10	0.9998			0.10	0.4305	0.8131	0.9619	0.9950	0.9996		
.11	.9997			.11	.3937	.7829	.9513	.9929	.9993		
.12	.9996			.12	.3596	.7520	.9392	.9903	.9990	0.9999	
.13	.9994			.13	.3282	.7206	.9257	.9871	.9985	.9999	
.14	.9991			.14	.2992	.6889	.9109	.9832	.9979	.9998	
0.15	0.9988	0.9999		0.15	0.2725	0.6572	0.8948	0.9786	0.9971	0.9998	
.16	.9983	.9999		.16	.2479	.6256	.8774	.9733	.9962	.9997	
.17	.9978	.9999		.17	.2252	.5943	.8588	.9672	.9950	.9995	
.18	.9971	.9998		.18	.2044	.5634	.8392	.9603	.9935	.9993	
.19	.9963	.9997		.19	.1853	.5330	.8185	.9524	.9917	.9991	0.9999
0.20	0.9953	0.9996		0.20	0.1678	0.5033	0.7969	0.9437	0.9896	0.9988	0.9999
.21	.9942	.9995		.21	.1517	.4743	.7745	.9341	.9871	.9984	.9999
.22	.9928	.9994		.22	.1370	.4462	.7514	.9235	.9842	.9979	.9998
.23	.9912	.9992		.23	.1236	.4189	.7276	.9120	.9809	.9973	.9998
.24	.9893	.9989		.24	.1113	.3925	.7033	.8996	.9770	.9966	.9997
0.25	0.9871	0.9987	0.9999	0.25	0.1001	0.3671	0.6785	0.8862	0.9727	0.9958	0.9996
.26	.9847	.9983	.9999	.26	.0899	.3427	.6535	.8719	.9678	.9948	.9995
.27	.9819	.9979	.9999	.27	.0806	.3193	.6282	.8567	.9623	.9936	.9994
.28	.9787	.9974	.9999	.28	.0722	.2969	.6027	.8406	.9562	.9922	.9992
.29	.9752	.9969	.9998	.29	.0646	.2756	.5772	.8237	.9495	.9906	.9990
0.30	0.9712	0.9962	0.9998	0.30	0.0576	0.2553	0.5518	0.8059	0.9420	0.9887	0.9987
.31	.9668	.9954	.9997	.31	.0514	.2360	.5264	.7874	.9339	.9866	.9984
.32	.9620	.9945	.9997	.32	.0457	.2178	.5013	.7681	.9250	.9841	.9980
.33	.9566	.9935	.9996	.33	.0406	.2006	.4764	.7481	.9154	.9813	.9976
.34	.9508	.9923	.9995	.34	.0360	.1844	.4519	.7276	.9051	.9782	.9970
0.35	0.9444	0.9910	0.9994	0.35	0.0319	0.1691	0.4278	0.7064	0.8939	0.9747	0.9964
.36	.9375	.9895	.9992	.36	.0281	.1548	.4042	.6847	.8820	.9707	.9957
.37	.9299	.9877	.9991	.37	.0248	.1414	.3811	.6626	.8693	.9664	.9949
.38	.9218	.9858	.9989	.38	.0218	.1289	.3585	.6401	.8557	.9615	.9939
.39	.9131	.9836	.9986	.39	.0192	.1172	.3366	.6172	.8414	.9561	.9928
0.40	0.9037	0.9812	0.9984	0.40	0.0168	0.1064	0.3154	0.5941	0.8263	0.9502	0.9915
.41	.8937	.9784	.9981	.41	.0147	.0963	.2948	.5708	.8105	.9437	.9900
.42	.8831	.9754	.9977	.42	.0128	.0870	.2750	.5473	.7938	.9366	.9883
.43	.8718	.9721	.9973	.43	.0111	.0784	.2560	.5238	.7765	.9289	.9864
.44	.8598	.9684	.9968	.44	.0097	.0705	.2376	.5004	.7584	.9206	.9843
0.45	0.8471	0.9643	0.9963	0.45	0.0084	0.0632	0.2201	0.4770	0.7396	0.9115	0.9819
.46	.8337	.9598	.9956	.46	.0072	.0565	.2034	.4537	.7202	.9018	.9792
.47	.8197	.9549	.9949	.47	.0062	.0504	.1875	.4306	.7001	.8914	.9761
.48	.8049	.9496	.9941	.48	.0053	.0448	.1724	.4078	.6795	.8802	.9728
.49	.7895	.9438	.9932	.49	.0046	.0398	.1581	.3854	.6584	.8682	.9690
0.50	0.7734	0.9375	0.9922	0.50	0.0039	0.0352	0.1445	0.3633	0.6367	0.8555	0.9648

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 8$	$r = 7$	$n = 9$	$r = 0$	1	2	3	4	5	6	7	8
$p = 0.01$		$p = 0.01$	0.9135	0.9966	0.9999						
0.02		0.02	.8337	.9869	.9994						
0.03		0.03	.7602	.9718	.9980	0.9999					
0.04		0.04	.6925	.9522	.9955	.9997					
0.05		0.05	.6302	.9288	.9916	.9994					
0.06		0.06	.5730	.9022	.9862	.9987	0.9999				
0.07		0.07	.5204	.8729	.9791	.9977	.9998				
0.08		0.08	.4722	.8417	.9702	.9963	.9997				
0.09		0.09	.4279	.8088	.9595	.9943	.9995				
0.10		0.10	.3874	.7748	.9470	.9917	.9991	0.9999			
0.11		0.11	.3504	.7401	.9328	.9883	.9986	.9999			
0.12		0.12	.3165	.7049	.9167	.9842	.9979	.9998			
0.13		0.13	.2855	.6696	.8991	.9791	.9970	.9997			
0.14		0.14	.2573	.6343	.8798	.9731	.9959	.9996			
0.15		0.15	.2316	.5995	.8591	.9661	.9944	.9994			
0.16		0.16	.2082	.5652	.8371	.9580	.9925	.9991	0.9999		
0.17		0.17	.1869	.5315	.8139	.9488	.9902	.9987	.9999		
0.18		0.18	.1676	.4988	.7895	.9385	.9875	.9983	.9998		
0.19		0.19	.1501	.4670	.7643	.9270	.9842	.9977	.9998		
0.20		0.20	.1342	.4362	.7382	.9144	.9804	.9969	.9997		
0.21		0.21	.1199	.4066	.7115	.9006	.9760	.9960	.9996		
0.22		0.22	.1069	.3782	.6842	.8856	.9709	.9949	.9994		
0.23		0.23	.0952	.3509	.6566	.8696	.9650	.9935	.9992	0.9999	
0.24		0.24	.0846	.3250	.6287	.8525	.9584	.9919	.9990	.9999	
0.25		0.25	.0751	.3003	.6007	.8343	.9511	.9900	.9987	.9999	
0.26		0.26	.0665	.2770	.5727	.8151	.9429	.9878	.9983	.9999	
0.27		0.27	.0589	.2548	.5448	.7950	.9338	.9851	.9978	.9998	
0.28		0.28	.0520	.2340	.5171	.7740	.9238	.9821	.9972	.9997	
0.29	0.9999	0.29	.0458	.2144	.4898	.7522	.9130	.9787	.9965	.9997	
0.30	0.9999	0.30	.0404	.1960	.4628	.7297	.9012	.9747	.9957	.9996	
0.31	.9999	0.31	.0355	.1788	.4364	.7065	.8885	.9702	.9947	.9994	
0.32	.9999	0.32	.0311	.1628	.4106	.6827	.8748	.9652	.9936	.9993	
0.33	.9999	0.33	.0272	.1478	.3854	.6585	.8602	.9596	.9922	.9991	
0.34	.9998	0.34	.0238	.1339	.3610	.6338	.8447	.9533	.9906	.9989	0.9999
0.35	0.9998	0.35	.0207	.1211	.3373	.6089	.8283	.9464	.9888	.9986	.9999
0.36	.9997	0.36	.0180	.1092	.3144	.5837	.8110	.9388	.9867	.9983	.9999
0.37	.9996	0.37	.0156	.0983	.2924	.5584	.7928	.9304	.9843	.9979	.9999
0.38	.9996	0.38	.0135	.0882	.2713	.5331	.7738	.9213	.9816	.9974	.9998
0.39	.9995	0.39	.0117	.0790	.2511	.5078	.7540	.9114	.9785	.9969	.9998
0.40	0.9993	0.40	.0101	.0705	.2318	.4826	.7334	.9006	.9750	.9962	.9997
0.41	.9992	0.41	.0087	.0628	.2134	.4576	.7122	.8891	.9710	.9954	.9997
0.42	.9990	0.42	.0074	.0558	.1961	.4330	.6903	.8767	.9666	.9945	.9996
0.43	.9988	0.43	.0064	.0495	.1796	.4087	.6678	.8634	.9617	.9935	.9995
0.44	.9986	0.44	.0054	.0437	.1641	.3848	.6449	.8492	.9563	.9923	.9994
0.45	0.9983	0.45	.0046	.0385	.1495	.3614	.6214	.8342	.9502	.9909	.9992
0.46	.9980	0.46	.0039	.0338	.1358	.3386	.5976	.8183	.9436	.9893	.9991
0.47	.9976	0.47	.0033	.0296	.1231	.3164	.5735	.8015	.9363	.9875	.9989
0.48	.9972	0.48	.0028	.0259	.1111	.2948	.5491	.7839	.9283	.9855	.9986
0.49	.9967	0.49	.0023	.0225	.1001	.2740	.5246	.7654	.9196	.9831	.9984
0.50	0.9961	0.50	.0020	.0195	.0898	.2539	.5000	.7461	.9102	.9805	.9980

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 10$	$r = 0$	1	2	3	4	5	6	7	8	9
$p = 0.01$	0.9044	0.9957	0.9999							
.02	.8171	.9838	.9991							
.03	.7374	.9655	.9972	0.9999						
.04	.6648	.9418	.9938	.9996						
0.05	0.5987	0.9139	0.9885	0.9990	0.9999					
.06	.5386	.8824	.9812	.9980	.9998					
.07	.4840	.8483	.9717	.9964	.9997					
.08	.4344	.8121	.9599	.9942	.9994					
.09	.3894	.7746	.9460	.9912	.9990	0.9999				
0.10	0.3487	0.7361	0.9298	0.9872	0.9984	0.9999				
.11	.3118	.6972	.9116	.9822	.9975	.9997				
.12	.2785	.6583	.8913	.9761	.9963	.9996				
.13	.2484	.6196	.8692	.9687	.9947	.9994	0.9999			
.14	.2213	.5816	.8455	.9600	.9927	.9990	.9999			
0.15	0.1969	0.5443	0.8202	0.9500	0.9901	0.9986	0.9999			
.16	.1749	.5080	.7936	.9386	.9870	.9980	.9998			
.17	.1552	.4730	.7659	.9259	.9832	.9973	.9997			
.18	.1374	.4392	.7372	.9117	.9787	.9963	.9996			
.19	.1216	.4068	.7078	.8961	.9734	.9951	.9994	0.9999		
0.20	0.1074	0.3758	0.6778	0.8791	0.9672	0.9936	0.9991	0.9999		
.21	.0947	.3464	.6474	.8609	.9601	.9918	.9988	.9999		
.22	.0834	.3185	.6169	.8413	.9521	.9896	.9984	.9998		
.23	.0733	.2921	.5863	.8206	.9431	.9870	.9979	.9998		
.24	.0643	.2673	.5558	.7988	.9330	.9839	.9973	.9997		
0.25	0.0563	0.2440	0.5256	0.7759	0.9219	0.9803	0.9965	0.9996		
.26	.0492	.2222	.4958	.7521	.9096	.9761	.9955	.9994		
.27	.0430	.2019	.4665	.7274	.8963	.9713	.9944	.9993	0.9999	
.28	.0374	.1830	.4378	.7021	.8819	.9658	.9930	.9990	.9999	
.29	.0326	.1655	.4099	.6761	.8663	.9596	.9913	.9988	.9999	
0.30	0.0282	0.1493	0.3828	0.6496	0.8497	0.9527	0.9894	0.9984	0.9999	
.31	.0245	.1344	.3566	.6228	.8321	.9449	.9871	.9980	.9998	
.32	.0211	.1206	.3313	.5956	.8133	.9363	.9845	.9975	.9997	
.33	.0182	.1080	.3070	.5684	.7936	.9268	.9815	.9968	.9997	
.34	.0157	.0965	.2838	.5411	.7730	.9164	.9780	.9961	.9996	
0.35	0.0135	0.0860	0.2616	0.5138	0.7515	0.9051	0.9740	0.9952	0.9995	
.36	.0115	.0764	.2405	.4868	.7292	.8928	.9695	.9941	.9993	
.37	.0098	.0677	.2206	.4600	.7061	.8795	.9644	.9929	.9991	
.38	.0084	.0598	.2017	.4336	.6823	.8652	.9587	.9914	.9989	0.9999
.39	.0071	.0527	.1840	.4077	.6580	.8500	.9523	.9897	.9986	.9999
0.40	0.0060	0.0464	0.1673	0.3823	0.6331	0.8338	0.9452	0.9877	0.9983	0.9999
.41	.0051	.0406	.1517	.3575	.6078	.8166	.9374	.9854	.9979	.9999
.42	.0043	.0355	.1372	.3335	.5822	.7984	.9288	.9828	.9975	.9998
.43	.0036	.0309	.1236	.3102	.5564	.7793	.9194	.9798	.9969	.9998
.44	.0030	.0269	.1111	.2877	.5304	.7593	.9092	.9764	.9963	.9997
0.45	0.0025	0.0233	0.0996	0.2660	0.5044	0.7384	0.8980	.9726	0.9955	0.9997
.46	.0021	.0201	.0889	.2453	.4784	.7168	.8859	.9683	.9946	.9996
.47	.0017	.0173	.0791	.2255	.4526	.6943	.8729	.9634	.9935	.9995
.48	.0014	.0148	.0702	.2067	.4270	.6712	.8590	.9580	.9923	.9994
.49	.0012	.0126	.0621	.1888	.4018	.6474	.8440	.9520	.9909	.9992
0.50	0.0010	0.0107	0.0547	0.1719	0.3770	0.6230	0.8281	0.9453	0.9893	0.9990

See page 4 for explanation of the use of this table.



**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = II$	$r = 0$	1	2	3	4	5	6	7	8	9	10
$p = 0.01$	0.8953	0.9948	0.9998								
.02	.8007	.9805	.9988								
.03	.7153	.9587	.9963	0.9998							
.04	.6382	.9308	.9917	.9993							
0.05	0.5688	0.8981	0.9848	0.9984	0.9999						
.06	.5063	.8618	.9752	.9970	.9997						
.07	.4501	.8228	.9630	.9947	.9995						
.08	.3996	.7819	.9481	.9915	.9990	0.9999					
.09	.3544	.7399	.9305	.9871	.9983	.9998					
0.10	0.3138	0.6974	0.9104	0.9815	0.9972	0.9997					
.11	.2775	.6548	.8880	.9744	.9958	.9995					
.12	.2451	.6127	.8634	.9659	.9939	.9992	0.9999				
.13	.2161	.5714	.8368	.9558	.9913	.9988	.9999				
.14	.1903	.5311	.8085	.9440	.9881	.9982	.9998				
0.15	0.1673	0.4922	0.7788	0.9306	0.9841	0.9973	0.9997				
.16	.1469	.4547	.7479	.9154	.9793	.9963	.9995				
.17	.1288	.4189	.7161	.8987	.9734	.9949	.9993	0.9999			
.18	.1127	.3849	.6836	.8803	.9666	.9932	.9990	.9999			
.19	.0985	.3526	.6506	.8603	.9587	.9910	.9986	.9998			
0.20	0.0859	0.3221	0.6174	0.8389	0.9496	0.9883	0.9980	0.9998			
.21	.0748	.2935	.5842	.8160	.9393	.9852	.9973	.9997			
.22	.0650	.2667	.5512	.7919	.9277	.9814	.9965	.9995			
.23	.0564	.2418	.5186	.7667	.9149	.9769	.9954	.9993	0.9999		
.24	.0489	.2186	.4866	.7404	.9008	.9717	.9941	.9991	.9999		
0.25	0.0422	0.1971	0.4552	0.7133	0.8854	0.9657	0.9924	0.9988	0.9999		
.26	.0364	.1773	.4247	.6854	.8687	.9588	.9905	.9984	.9998		
.27	.0314	.1590	.3951	.6570	.8507	.9510	.9881	.9979	.9998		
.28	.0270	.1423	.3665	.6281	.8315	.9423	.9854	.9973	.9997		
.29	.0231	.1270	.3390	.5989	.8112	.9326	.9821	.9966	.9996		
0.30	0.0198	0.1130	0.3127	0.5696	0.7897	0.9218	0.9784	0.9957	0.9994		
.31	.0169	.1003	.2877	.5402	.7672	.9099	.9740	.9946	.9992	0.9999	
.32	.0144	.0888	.2639	.5110	.7437	.8969	.9691	.9933	.9990	.9999	
.33	.0122	.0784	.2413	.4821	.7193	.8829	.9634	.9918	.9987	.9999	
.34	.0104	.0690	.2201	.4536	.6941	.8676	.9570	.9899	.9984	.9998	
0.35	0.0088	0.0606	0.2001	0.4256	0.6683	0.8513	0.9499	0.9878	0.9980	0.9998	
.36	.0074	.0530	.1814	.3981	.6419	.8339	.9419	.9852	.9974	.9997	
.37	.0062	.0463	.1640	.3714	.6150	.8153	.9330	.9823	.9968	.9996	
.38	.0052	.0403	.1478	.3455	.5878	.7957	.9232	.9790	.9961	.9995	
.39	.0044	.0350	.1328	.3204	.5603	.7751	.9124	.9751	.9952	.9994	
0.40	0.0036	0.0302	0.1189	0.2963	0.5328	0.7535	0.9006	0.9707	0.9941	0.9993	
.41	.0030	.0261	.1062	.2731	.5052	.7310	.8879	.9657	.9928	.9991	0.9999
.42	.0025	.0224	.0945	.2510	.4777	.7076	.8740	.9601	.9913	.9988	.9999
.43	.0021	.0192	.0838	.2300	.4505	.6834	.8592	.9539	.9896	.9986	.9999
.44	.0017	.0164	.0740	.2100	.4236	.6586	.8432	.9468	.9875	.9982	.9999
0.45	0.0014	0.0139	0.0652	0.1911	0.3971	0.6331	0.8262	0.9390	0.9852	0.9978	0.9998
.46	.0011	.0118	.0572	.1734	.3712	.6071	.8081	.9304	.9825	.9973	.9998
.47	.0009	.0100	.0501	.1567	.3459	.5807	.7890	.9209	.9794	.9967	.9998
.48	.0008	.0084	.0436	.1412	.3213	.5540	.7688	.9105	.9759	.9960	.9997
.49	.0006	.0070	.0378	.1267	.2974	.5271	.7477	.8991	.9718	.9951	.9996
0.50	0.0005	0.0059	0.0327	0.1133	0.2744	0.5000	0.7256	0.8867	0.9673	0.9941	0.9995

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 12$	$r = 0$	1	2	3	4	5	6	7	8	9	10
$p = 0.01$	0.8864	0.9938	0.9998								
0.02	.7847	.9769	.9985	0.9999							
0.03	.6938	.9514	.9952	.9997							
0.04	.6127	.9191	.9893	.9990	0.9999						
0.05	0.5404	0.8816	0.9804	0.9978	0.9998						
0.06	.4759	.8405	.9684	.9957	.9996						
0.07	.4186	.7967	.9532	.9925	.9991	0.9999					
0.08	.3677	.7513	.9348	.9880	.9984	.9998					
0.09	.3225	.7052	.9134	.9820	.9973	.9997					
0.10	0.2824	0.6590	0.8891	0.9744	0.9957	0.9995	0.9999				
0.11	.2470	.6133	.8623	.9649	.9935	.9991	.9999				
0.12	.2157	.5686	.8333	.9536	.9905	.9986	.9998				
0.13	.1880	.5252	.8023	.9403	.9867	.9978	.9997				
0.14	.1637	.4834	.7697	.9250	.9819	.9967	.9996				
0.15	0.1422	0.4435	0.7358	0.9078	0.9761	0.9954	0.9993	0.9999			
0.16	.1234	.4055	.7010	.8886	.9690	.9935	.9990	.9999			
0.17	.1069	.3696	.6656	.8676	.9607	.9912	.9985	.9998			
0.18	.0924	.3359	.6298	.8448	.9511	.9884	.9979	.9997			
0.19	.0798	.3043	.5940	.8205	.9400	.9849	.9971	.9996			
0.20	0.0687	0.2749	0.5583	0.7946	0.9274	0.9806	0.9961	0.9994	0.9999		
0.21	.0591	.2476	.5232	.7674	.9134	.9755	.9948	.9992	.9999		
0.22	.0507	.2224	.4886	.7390	.8979	.9696	.9932	.9989	.9999		
0.23	.0434	.1991	.4550	.7096	.8808	.9626	.9911	.9984	.9998		
0.24	.0371	.1778	.4222	.6795	.8623	.9547	.9887	.9979	.9997		
0.25	0.0317	0.1584	0.3907	0.6488	0.8424	0.9456	0.9857	0.9972	0.9996		
0.26	.0270	.1406	.3603	.6176	.8210	.9354	.9822	.9964	.9995	0.9999	
0.27	.0229	.1245	.3313	.5863	.7984	.9240	.9781	.9953	.9993	.9999	
0.28	.0194	.1100	.3037	.5548	.7746	.9113	.9733	.9940	.9990	.9999	
0.29	.0164	.0968	.2775	.5235	.7496	.8974	.9678	.9924	.9987	.9998	
0.30	0.0138	0.0850	0.2528	0.4925	0.7237	0.8822	0.9614	0.9905	0.9983	0.9998	
0.31	.0116	.0744	.2296	.4619	.6968	.8657	.9542	.9882	.9978	.9997	
0.32	.0098	.0650	.2078	.4319	.6692	.8479	.9460	.9856	.9972	.9996	
0.33	.0082	.0565	.1876	.4027	.6410	.8289	.9368	.9824	.9964	.9995	
0.34	.0068	.0491	.1687	.3742	.6124	.8087	.9266	.9787	.9955	.9993	0.9999
0.35	0.0057	0.0424	0.1513	0.3467	0.5833	0.7873	0.9154	0.9745	0.9944	0.9992	0.9999
0.36	.0047	.0366	.1352	.3201	.5541	.7648	.9030	.9696	.9930	.9989	.9999
0.37	.0039	.0315	.1205	.2947	.5249	.7412	.8894	.9641	.9915	.9986	.9999
0.38	.0032	.0270	.1069	.2704	.4957	.7167	.8747	.9578	.9896	.9982	.9998
0.39	.0027	.0230	.0946	.2472	.4668	.6913	.8589	.9507	.9873	.9978	.9998
0.40	0.0022	0.0196	0.0834	0.2253	0.4382	0.6652	0.8418	0.9427	0.9847	0.9972	0.9997
0.41	.0018	.0166	.0733	.2047	.4101	.6384	.8235	.9338	.9817	.9965	.9996
0.42	.0014	.0140	.0642	.1853	.3825	.6111	.8041	.9240	.9782	.9957	.9995
0.43	.0012	.0118	.0560	.1671	.3557	.5833	.7836	.9131	.9742	.9947	.9993
0.44	.0010	.0099	.0487	.1502	.3296	.5552	.7620	.9012	.9696	.9935	.9991
0.45	0.0008	0.0083	0.0421	0.1345	0.3044	0.5269	0.7393	0.8883	0.9644	0.9921	0.9989
0.46	.0006	.0069	.0363	.1199	.2802	.4986	.7157	.8742	.9585	.9905	.9986
0.47	.0005	.0057	.0312	.1066	.2570	.4703	.6911	.8589	.9519	.9886	.9983
0.48	.0004	.0047	.0267	.0943	.2348	.4423	.6657	.8425	.9445	.9863	.9979
0.49	.0003	.0039	.0227	.0832	.2138	.4145	.6396	.8249	.9362	.9837	.9974
0.50	0.0002	0.0032	0.0193	0.0730	0.1938	0.3872	0.6128	0.8062	0.9270	0.9807	0.9968

$n = 12$	$r = 11$
$p = 0.44$	0.9999
0.45	0.9999
0.46	.9999
0.47	.9999
0.48	.9999
0.49	.9998
0.50	0.9998

See page 4 for explanation of the use of this table.



**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 13$	$r = 0$	1	2	3	4	5	6	7	8	9	10
$p = 0.01$	0.8775	0.9928	0.9997								
0.02	.7690	.9730	.9980	0.9999							
0.03	.6730	.9436	.9938	.9995							
0.04	.5882	.9068	.9865	.9986	0.9999						
0.05	0.5133	0.8646	0.9755	0.9969	0.9997						
0.06	.4474	.8186	.9608	.9940	.9993	0.9999					
0.07	.3893	.7702	.9422	.9897	.9987	.9999					
0.08	.3383	.7206	.9201	.9837	.9976	.9997					
0.09	.2935	.6707	.8946	.9758	.9959	.9995	0.9999				
0.10	0.2542	0.6213	0.8661	0.9658	0.9935	0.9991	0.9999				
0.11	.2198	.5730	.8349	.9536	.9903	.9985	.9998				
0.12	.1898	.5262	.8015	.9391	.9861	.9976	.9997				
0.13	.1636	.4814	.7663	.9224	.9807	.9964	.9995	0.9999			
0.14	.1408	.4386	.7296	.9033	.9740	.9947	.9992	.9999			
0.15	0.1209	0.3983	0.6920	0.8820	0.9658	0.9925	0.9987	0.9998			
0.16	.1037	.3604	.6537	.8586	.9562	.9896	.9981	.9997			
0.17	.0887	.3249	.6152	.8333	.9449	.9861	.9973	.9996			
0.18	.0758	.2920	.5769	.8061	.9319	.9817	.9962	.9994	0.9999		
0.19	.0646	.2616	.5389	.7774	.9173	.9763	.9948	.9991	.9999		
0.20	0.0550	0.2336	0.5017	0.7473	0.9009	0.9700	0.9930	0.9988	0.9998		
0.21	.0467	.2080	.4653	.7161	.8827	.9625	.9907	.9983	.9998		
0.22	.0396	.1846	.4301	.6839	.8629	.9538	.9880	.9976	.9996		
0.23	.0334	.1633	.3961	.6511	.8415	.9438	.9846	.9968	.9995	0.9999	
0.24	.0282	.1441	.3636	.6178	.8184	.9325	.9805	.9957	.9993	.9999	
0.25	0.0238	0.1267	0.3326	0.5843	0.7940	0.9198	0.9757	0.9944	0.9990	0.9999	
0.26	.0200	.1111	.3032	.5507	.7681	.9056	.9701	.9927	.9987	.9998	
0.27	.0167	.0971	.2755	.5174	.7411	.8901	.9635	.9907	.9982	.9997	
0.28	.0140	.0846	.2495	.4845	.7130	.8730	.9560	.9882	.9976	.9996	
0.29	.0117	.0735	.2251	.4522	.6840	.8545	.9473	.9853	.9969	.9995	0.9999
0.30	0.0097	0.0637	0.2025	0.4206	0.6543	0.8346	0.9376	0.9818	0.9960	0.9993	0.9999
0.31	.0080	.0550	.1815	.3899	.6240	.8133	.9267	.9777	.9948	.9991	.9999
0.32	.0066	.0473	.1621	.3602	.5933	.7907	.9146	.9729	.9935	.9988	.9999
0.33	.0055	.0406	.1443	.3317	.5624	.7669	.9012	.9674	.9918	.9985	.9998
0.34	.0045	.0347	.1280	.3043	.5314	.7419	.8865	.9610	.9898	.9980	.9997
0.35	0.0037	0.0296	0.1132	0.2783	0.5005	0.7159	0.8705	0.9538	0.9874	0.9975	0.9997
0.36	.0030	.0251	.0997	.2536	.4699	.6889	.8532	.9456	.9846	.9968	.9995
0.37	.0025	.0213	.0875	.2302	.4397	.6612	.8346	.9365	.9813	.9960	.9994
0.38	.0020	.0179	.0765	.2083	.4101	.6327	.8147	.9262	.9775	.9949	.9992
0.39	.0016	.0151	.0667	.1877	.3812	.6038	.7935	.9149	.9730	.9937	.9990
0.40	0.0013	0.0126	0.0579	0.1686	0.3530	0.5744	0.7712	0.9023	0.9679	0.9922	0.9987
0.41	.0010	.0105	.0501	.1508	.3258	.5448	.7476	.8886	.9621	.9904	.9983
0.42	.0008	.0088	.0431	.1344	.2997	.5151	.7230	.8736	.9554	.9883	.9979
0.43	.0007	.0072	.0370	.1193	.2746	.4854	.6975	.8574	.9480	.9859	.9973
0.44	.0005	.0060	.0316	.1055	.2507	.4559	.6710	.8400	.9395	.9830	.9967
0.45	0.0004	0.0049	0.0269	0.0929	0.2279	0.4268	0.6437	0.8212	0.9302	0.9797	0.9959
0.46	.0003	.0040	.0228	.0815	.2065	.3981	.6158	.8012	.9197	.9758	.9949
0.47	.0003	.0033	.0192	.0712	.1863	.3701	.5873	.7800	.9082	.9713	.9937
0.48	.0002	.0026	.0162	.0619	.1674	.3427	.5585	.7576	.8955	.9662	.9923
0.49	.0002	.0021	.0135	.0536	.1498	.3162	.5293	.7341	.8817	.9604	.9907
0.50	0.0001	0.0017	0.0112	0.0461	0.1334	0.2905	0.5000	0.7095	0.8666	0.9539	0.9888

See page 4 for explanation of the use of this table.

**TABLE 1. THE BINOMIAL DISTRIBUTION FUNCTION**

$n = 13$	$r = 11$	$12$	$n = 14$	$r = 0$	$1$	$2$	$3$	$4$	$5$	$6$	$7$
$p = 0.01$			$p = 0.01$	0.8687	0.9916	0.9997					
.02			.02	.7536	.9690	.9975	0.9999				
.03			.03	.6528	.9355	.9923	.9994				
.04			.04	.5647	.8941	.9833	.9981	0.9998			
0.05			0.05	0.4877	0.8470	0.9699	0.9958	0.9996			
.06			.06	.4205	.7963	.9522	.9920	.9990	0.9999		
.07			.07	.3620	.7436	.9302	.9864	.9980	.9998		
.08			.08	.3112	.6900	.9042	.9786	.9965	.9996		
.09			.09	.2670	.6368	.8745	.9685	.9941	.9992	0.9999	
0.10			0.10	0.2288	0.5846	0.8416	0.9559	0.9908	0.9985	0.9998	
.11			.11	.1956	.5342	.8061	.9406	.9863	.9976	.9997	
.12			.12	.1670	.4859	.7685	.9226	.9804	.9962	.9994	0.9999
.13			.13	.1423	.4401	.7292	.9021	.9731	.9943	.9991	.9999
.14			.14	.1211	.3969	.6889	.8790	.9641	.9918	.9985	.9998
0.15			0.15	0.1028	0.3567	0.6479	0.8535	0.9533	0.9885	0.9978	0.9997
.16			.16	.0871	.3193	.6068	.8258	.9406	.9843	.9968	.9995
.17			.17	.0736	.2848	.5659	.7962	.9259	.9791	.9954	.9992
.18			.18	.0621	.2531	.5256	.7649	.9093	.9727	.9936	.9988
.19			.19	.0523	.2242	.4862	.7321	.8907	.9651	.9913	.9983
0.20			0.20	0.0440	0.1979	0.4481	0.6982	0.8702	0.9561	0.9884	0.9976
.21			.21	.0369	.1741	.4113	.6634	.8477	.9457	.9848	.9967
.22			.22	.0309	.1527	.3761	.6281	.8235	.9338	.9804	.9955
.23			.23	.0258	.1335	.3426	.5924	.7977	.9203	.9752	.9940
.24			.24	.0214	.1163	.3109	.5568	.7703	.9051	.9690	.9921
0.25			0.25	0.0178	0.1010	0.2811	0.5213	0.7415	0.8883	0.9617	0.9897
.26			.26	.0148	.0874	.2533	.4864	.7116	.8699	.9533	.9868
.27			.27	.0122	.0754	.2273	.4521	.6807	.8498	.9437	.9833
.28			.28	.0101	.0648	.2033	.4187	.6491	.8282	.9327	.9792
.29			.29	.0083	.0556	.1812	.3863	.6168	.8051	.9204	.9743
0.30			0.30	0.0068	0.0475	0.1608	0.3552	0.5842	0.7805	0.9067	0.9685
.31			.31	.0055	.0404	.1423	.3253	.5514	.7546	.8916	.9619
.32			.32	.0045	.0343	.1254	.2968	.5187	.7276	.8750	.9542
.33			.33	.0037	.0290	.1101	.2699	.4862	.6994	.8569	.9455
.34			.34	.0030	.0244	.0963	.2444	.4542	.6703	.8374	.9357
0.35			0.35	0.0024	0.0205	0.0839	0.2205	0.4227	0.6405	0.8164	0.9247
.36			.36	.0019	.0172	.0729	.1982	.3920	.6101	.7941	.9124
.37	0.9999		.37	.0016	.0143	.0630	.1774	.3622	.5792	.7704	.8988
.38	.9999		.38	.0012	.0119	.0543	.1582	.3334	.5481	.7455	.8838
.39	.9999		.39	.0010	.0098	.0466	.1405	.3057	.5169	.7195	.8675
0.40	0.9999		0.40	0.0008	0.0081	0.0398	0.1243	0.2793	0.4859	0.6925	0.8499
.41	.9998		.41	.0006	.0066	.0339	.1095	.2541	.4550	.6645	.8308
.42	.9998		.42	.0005	.0054	.0287	.0961	.2303	.4246	.6357	.8104
.43	.9997		.43	.0004	.0044	.0242	.0839	.2078	.3948	.6063	.7887
.44	.9996		.44	.0003	.0036	.0203	.0730	.1868	.3656	.5764	.7656
0.45	0.9995		0.45	0.0002	0.0029	0.0170	0.0632	0.1672	0.3373	0.5461	0.7414
.46	.9993		.46	.0002	.0023	.0142	.0545	.1490	.3100	.5157	.7160
.47	.9991	0.9999	.47	.0001	.0019	.0117	.0468	.1322	.2837	.4852	.6895
.48	.9989	.9999	.48	.0001	.0015	.0097	.0399	.1167	.2585	.4549	.6620
.49	.9986	.9999	.49	.0001	.0012	.0079	.0339	.1026	.2346	.4249	.6337
0.50	0.9983	0.9999	0.50	0.0001	0.0009	0.0065	0.0287	0.0898	0.2120	0.3953	0.6047

See page 4 for explanation of the use of this table.