

12 Verteilungstabellen

12.1 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,05$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.9500	0.9025	0.8574	0.8145	0.7738	0.7351	0.6983	0.6634	0.6302	0.5987	0.5688	0.5404	0.5133	0.4877	0.4633
1	1.0000	0.9975	0.9927	0.9860	0.9774	0.9672	0.9556	0.9428	0.9288	0.9139	0.8981	0.8816	0.8646	0.8470	0.8290
2	1.0000	1.0000	0.9999	0.9995	0.9988	0.9978	0.9962	0.9942	0.9916	0.9885	0.9848	0.9804	0.9755	0.9699	0.9638
3	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9994	0.9990	0.9984	0.9978	0.9969	0.9958	0.9945
4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9997	0.9996	0.9994
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	0.9999
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

$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.4401	0.4181	0.3972	0.3774	0.3585	0.3406	0.3235	0.3074	0.2920	0.2774	0.2635	0.2503	0.2378	0.2259	0.2146
1	0.8108	0.7922	0.7735	0.7547	0.7358	0.7170	0.6982	0.6794	0.6608	0.6424	0.6241	0.6061	0.5883	0.5708	0.5535
2	0.9571	0.9497	0.9419	0.9335	0.9245	0.9151	0.9052	0.8948	0.8841	0.8729	0.8614	0.8495	0.8373	0.8249	0.8122
3	0.9930	0.9912	0.9891	0.9868	0.9841	0.9811	0.9778	0.9742	0.9702	0.9659	0.9613	0.9563	0.9509	0.9452	0.9392
4	0.9991	0.9988	0.9985	0.9980	0.9974	0.9968	0.9960	0.9951	0.9940	0.9928	0.9915	0.9900	0.9883	0.9864	0.9844
5	0.9999	0.9999	0.9998	0.9998	0.9997	0.9996	0.9994	0.9992	0.9990	0.9988	0.9985	0.9981	0.9977	0.9973	0.9967
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9998	0.9998	0.9997	0.9996	0.9995	0.9994
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
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

$x \backslash n$	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
0	0.2039	0.1937	0.1840	0.1748	0.1661	0.1578	0.1499	0.1424	0.1353	0.1285	0.1221	0.1160	0.1102	0.1047	0.0994
1	0.5366	0.5200	0.5036	0.4877	0.4720	0.4567	0.4418	0.4272	0.4129	0.3991	0.3855	0.3724	0.3595	0.3471	0.3350
2	0.7992	0.7861	0.7728	0.7593	0.7458	0.7321	0.7183	0.7045	0.6906	0.6767	0.6629	0.6490	0.6352	0.6214	0.6077
3	0.9329	0.9262	0.9192	0.9119	0.9042	0.8963	0.8881	0.8796	0.8709	0.8619	0.8526	0.8431	0.8334	0.8235	0.8134
4	0.9821	0.9796	0.9770	0.9741	0.9710	0.9676	0.9641	0.9603	0.9562	0.9520	0.9475	0.9427	0.9377	0.9325	0.9271
5	0.9961	0.9954	0.9946	0.9937	0.9927	0.9917	0.9905	0.9891	0.9877	0.9861	0.9844	0.9826	0.9806	0.9784	0.9761
6	0.9993	0.9991	0.9989	0.9987	0.9985	0.9982	0.9979	0.9975	0.9971	0.9966	0.9961	0.9955	0.9949	0.9941	0.9934
7	0.9999	0.9999	0.9998	0.9998	0.9997	0.9997	0.9996	0.9995	0.9994	0.9993	0.9992	0.9990	0.9988	0.9986	0.9984
8	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9999	0.9999	0.9998	0.9998	0.9998	0.9997	0.9997
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	0.9999	0.9999
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

12.2 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,10$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.9000	0.8100	0.7290	0.6561	0.5905	0.5314	0.4783	0.4305	0.3874	0.3487	0.3138	0.2824	0.2542	0.2288	0.2059
1	1.0000	0.9900	0.9720	0.9477	0.9185	0.8857	0.8503	0.8131	0.7748	0.7361	0.6974	0.6590	0.6213	0.5846	0.5490
2	1.0000	1.0000	0.9990	0.9963	0.9914	0.9841	0.9743	0.9619	0.9470	0.9298	0.9104	0.8891	0.8661	0.8416	0.8159
3	1.0000	1.0000	1.0000	0.9999	0.9995	0.9987	0.9973	0.9950	0.9917	0.9872	0.9815	0.9744	0.9658	0.9559	0.9444
4	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9991	0.9984	0.9972	0.9957	0.9935	0.9908	0.9873
5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9995	0.9991	0.9985	0.9978
6	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	0.9998	0.9997
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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.1853	0.1668	0.1501	0.1351	0.1216	0.1094	0.0985	0.0886	0.0798	0.0718	0.0646	0.0581	0.0523	0.0471	0.0424
1	0.5147	0.4818	0.4503	0.4203	0.3917	0.3647	0.3392	0.3151	0.2925	0.2712	0.2513	0.2326	0.2152	0.1989	0.1837
2	0.7892	0.7618	0.7338	0.7054	0.6769	0.6484	0.6200	0.5920	0.5643	0.5371	0.5105	0.4846	0.4594	0.4350	0.4114
3	0.9316	0.9174	0.9018	0.8850	0.8670	0.8480	0.8281	0.8073	0.7857	0.7636	0.7409	0.7179	0.6946	0.6710	0.6474
4	0.9830	0.9779	0.9718	0.9648	0.9568	0.9478	0.9379	0.9269	0.9149	0.9020	0.8882	0.8734	0.8579	0.8416	0.8245
5	0.9967	0.9953	0.9936	0.9914	0.9887	0.9856	0.9818	0.9774	0.9723	0.9666	0.9601	0.9529	0.9450	0.9363	0.9268
6	0.9995	0.9992	0.9988	0.9983	0.9976	0.9967	0.9956	0.9942	0.9925	0.9905	0.9881	0.9853	0.9821	0.9784	0.9742
7	0.9999	0.9999	0.9998	0.9997	0.9996	0.9994	0.9991	0.9988	0.9983	0.9977	0.9970	0.9961	0.9950	0.9938	0.9922
8	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9998	0.9997	0.9995	0.9994	0.9991	0.9988	0.9984	0.9980
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9998	0.9998	0.9997	0.9995
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	0.9999	0.9999
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

12.3 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,15$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.8500	0.7225	0.6141	0.5220	0.4437	0.3771	0.3206	0.2725	0.2316	0.1969	0.1673	0.1422	0.1209	0.1028	0.0874
1	1.0000	0.9775	0.9392	0.8905	0.8352	0.7765	0.7166	0.6572	0.5995	0.5443	0.4922	0.4435	0.3983	0.3567	0.3186
2	1.0000	1.0000	0.9966	0.9880	0.9734	0.9527	0.9262	0.8948	0.8591	0.8202	0.7788	0.7358	0.6920	0.6479	0.6042
3	1.0000	1.0000	1.0000	0.9995	0.9978	0.9941	0.9879	0.9786	0.9661	0.9500	0.9306	0.9078	0.8820	0.8535	0.8227
4	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9988	0.9971	0.9944	0.9901	0.9841	0.9761	0.9658	0.9533	0.9383
5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9994	0.9986	0.9973	0.9954	0.9925	0.9885	0.9832
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9993	0.9987	0.9978	0.9964
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	0.9997	0.9994
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	0.9999
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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0743	0.0631	0.0536	0.0456	0.0388	0.0329	0.0280	0.0238	0.0202	0.0172	0.0146	0.0124	0.0106	0.0090	0.0076
1	0.2839	0.2525	0.2241	0.1985	0.1756	0.1550	0.1367	0.1204	0.1059	0.0931	0.0817	0.0716	0.0627	0.0549	0.0480
2	0.5614	0.5198	0.4797	0.4413	0.4049	0.3705	0.3382	0.3080	0.2798	0.2537	0.2296	0.2074	0.1871	0.1684	0.1514
3	0.7899	0.7556	0.7202	0.6841	0.6477	0.6113	0.5752	0.5396	0.5049	0.4711	0.4385	0.4072	0.3772	0.3487	0.3217
4	0.9209	0.9013	0.8794	0.8556	0.8298	0.8025	0.7738	0.7440	0.7134	0.6821	0.6505	0.6187	0.5869	0.5555	0.5245
5	0.9765	0.9681	0.9581	0.9463	0.9327	0.9173	0.9001	0.8811	0.8606	0.8385	0.8150	0.7903	0.7646	0.7379	0.7106
6	0.9944	0.9917	0.9882	0.9837	0.9781	0.9713	0.9632	0.9537	0.9428	0.9305	0.9167	0.9014	0.8848	0.8667	0.8474
7	0.9989	0.9983	0.9973	0.9959	0.9941	0.9917	0.9886	0.9848	0.9801	0.9745	0.9679	0.9602	0.9514	0.9414	0.9302
8	0.9998	0.9997	0.9995	0.9992	0.9987	0.9980	0.9970	0.9958	0.9941	0.9920	0.9894	0.9862	0.9823	0.9777	0.9722
9	1.0000	1.0000	0.9999	0.9999	0.9998	0.9996	0.9993	0.9990	0.9985	0.9979	0.9970	0.9958	0.9944	0.9926	0.9903
10	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9997	0.9995	0.9993	0.9989	0.9985	0.9978	0.9971
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9998	0.9996	0.9995	0.9992
12	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	0.9998
13	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

12.4 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,20$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.8000	0.6400	0.5120	0.4096	0.3277	0.2621	0.2097	0.1678	0.1342	0.1074	0.0859	0.0687	0.0550	0.0440	0.0352
1	1.0000	0.9600	0.8960	0.8192	0.7373	0.6554	0.5767	0.5033	0.4362	0.3758	0.3221	0.2749	0.2336	0.1979	0.1671
2	1.0000	1.0000	0.9920	0.9728	0.9421	0.9011	0.8520	0.7969	0.7382	0.6778	0.6174	0.5583	0.5017	0.4481	0.3980
3	1.0000	1.0000	1.0000	0.9984	0.9933	0.9830	0.9667	0.9437	0.9144	0.8791	0.8389	0.7946	0.7473	0.6982	0.6482
4	1.0000	1.0000	1.0000	1.0000	0.9997	0.9984	0.9953	0.9896	0.9804	0.9672	0.9496	0.9274	0.9009	0.8702	0.8358
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9988	0.9969	0.9936	0.9883	0.9806	0.9700	0.9561	0.9389
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9991	0.9980	0.9961	0.9930	0.9884	0.9819
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9994	0.9988	0.9976	0.9958
8	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	0.9996	0.9992
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	0.9999
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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0281	0.0225	0.0180	0.0144	0.0115	0.0092	0.0074	0.0059	0.0047	0.0038	0.0030	0.0024	0.0019	0.0015	0.0012
1	0.1407	0.1182	0.0991	0.0829	0.0692	0.0576	0.0480	0.0398	0.0331	0.0274	0.0227	0.0187	0.0155	0.0128	0.0105
2	0.3518	0.3096	0.2713	0.2369	0.2061	0.1787	0.1545	0.1332	0.1145	0.0982	0.0841	0.0718	0.0612	0.0520	0.0442
3	0.5981	0.5489	0.5010	0.4551	0.4114	0.3704	0.3320	0.2965	0.2639	0.2340	0.2068	0.1823	0.1602	0.1404	0.1227
4	0.7982	0.7582	0.7164	0.6733	0.6296	0.5860	0.5429	0.5007	0.4599	0.4207	0.3833	0.3480	0.3149	0.2839	0.2552
5	0.9183	0.8943	0.8671	0.8369	0.8042	0.7693	0.7326	0.6947	0.6559	0.6167	0.5775	0.5387	0.5005	0.4634	0.4275
6	0.9733	0.9623	0.9487	0.9324	0.9133	0.8915	0.8670	0.8402	0.8111	0.7800	0.7474	0.7134	0.6784	0.6429	0.6070
7	0.9930	0.9891	0.9837	0.9767	0.9679	0.9569	0.9439	0.9285	0.9108	0.8909	0.8687	0.8444	0.8182	0.7903	0.7608
8	0.9985	0.9974	0.9957	0.9933	0.9900	0.9856	0.9799	0.9727	0.9638	0.9532	0.9408	0.9263	0.9100	0.8916	0.8713
9	0.9998	0.9995	0.9991	0.9984	0.9974	0.9959	0.9939	0.9911	0.9874	0.9827	0.9768	0.9696	0.9609	0.9507	0.9389
10	1.0000	0.9999	0.9998	0.9997	0.9994	0.9990	0.9984	0.9975	0.9962	0.9944	0.9921	0.9890	0.9851	0.9803	0.9744
11	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9997	0.9994	0.9990	0.9985	0.9977	0.9965	0.9950	0.9931	0.9905
12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9996	0.9994	0.9990	0.9985	0.9978	0.9969
13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9996	0.9994	0.9991
14	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	0.9998
15	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
16	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

12.5 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,25$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.7500	0.5625	0.4219	0.3164	0.2373	0.1780	0.1335	0.1001	0.0751	0.0563	0.0422	0.0317	0.0238	0.0178	0.0134
1	1.0000	0.9375	0.8438	0.7383	0.6328	0.5339	0.4449	0.3671	0.3003	0.2440	0.1971	0.1584	0.1267	0.1010	0.0802
2	1.0000	1.0000	0.9844	0.9492	0.8965	0.8306	0.7564	0.6785	0.6007	0.5256	0.4552	0.3907	0.3326	0.2811	0.2361
3	1.0000	1.0000	1.0000	0.9961	0.9844	0.9624	0.9294	0.8862	0.8343	0.7759	0.7133	0.6488	0.5843	0.5213	0.4613
4	1.0000	1.0000	1.0000	1.0000	0.9990	0.9954	0.9871	0.9727	0.9511	0.9219	0.8854	0.8424	0.7940	0.7415	0.6865
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9987	0.9958	0.9900	0.9803	0.9657	0.9456	0.9198	0.8883	0.8516
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9987	0.9965	0.9924	0.9857	0.9757	0.9617	0.9434
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9988	0.9972	0.9944	0.9897	0.9827
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9990	0.9978	0.9958
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	0.9999	0.9997	0.9992
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	0.9999
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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0100	0.0075	0.0056	0.0042	0.0032	0.0024	0.0018	0.0013	0.0010	0.0008	0.0006	0.0004	0.0003	0.0002	0.0002
1	0.0635	0.0501	0.0395	0.0310	0.0243	0.0190	0.0149	0.0116	0.0090	0.0070	0.0055	0.0042	0.0033	0.0025	0.0020
2	0.1971	0.1637	0.1353	0.1113	0.0913	0.0745	0.0606	0.0492	0.0398	0.0321	0.0258	0.0207	0.0166	0.0133	0.0106
3	0.4050	0.3530	0.3057	0.2631	0.2252	0.1917	0.1624	0.1370	0.1150	0.0962	0.0802	0.0666	0.0551	0.0455	0.0374
4	0.6302	0.5739	0.5187	0.4654	0.4148	0.3674	0.3235	0.2832	0.2466	0.2137	0.1844	0.1583	0.1354	0.1153	0.0979
5	0.8103	0.7653	0.7175	0.6678	0.6172	0.5666	0.5168	0.4685	0.4222	0.3783	0.3371	0.2989	0.2638	0.2317	0.2026
6	0.9204	0.8929	0.8610	0.8251	0.7858	0.7436	0.6994	0.6537	0.6074	0.5611	0.5154	0.4708	0.4279	0.3868	0.3481
7	0.9729	0.9598	0.9431	0.9225	0.8982	0.8701	0.8385	0.8037	0.7662	0.7265	0.6852	0.6427	0.5997	0.5568	0.5143
8	0.9925	0.9876	0.9807	0.9713	0.9591	0.9439	0.9254	0.9037	0.8787	0.8506	0.8195	0.7859	0.7501	0.7125	0.6736
9	0.9984	0.9969	0.9946	0.9911	0.9861	0.9794	0.9705	0.9592	0.9453	0.9287	0.9091	0.8867	0.8615	0.8337	0.8034
10	0.9997	0.9994	0.9988	0.9977	0.9961	0.9936	0.9900	0.9851	0.9787	0.9703	0.9599	0.9472	0.9321	0.9145	0.8943
11	1.0000	0.9999	0.9998	0.9995	0.9991	0.9983	0.9971	0.9954	0.9928	0.9893	0.9845	0.9784	0.9706	0.9610	0.9493
12	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9993	0.9988	0.9979	0.9966	0.9948	0.9922	0.9888	0.9842	0.9784
13	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9995	0.9991	0.9985	0.9976	0.9962	0.9944	0.9918
14	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9996	0.9993	0.9989	0.9982	0.9973
15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9997	0.9995	0.9992
16	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	0.9998
17	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
18	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

12.6 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,30$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.7000	0.4900	0.3430	0.2401	0.1681	0.1176	0.0824	0.0576	0.0404	0.0282	0.0198	0.0138	0.0097	0.0068	0.0047
1	1.0000	0.9100	0.7840	0.6517	0.5282	0.4202	0.3294	0.2553	0.1960	0.1493	0.1130	0.0850	0.0637	0.0475	0.0353
2	1.0000	1.0000	0.9730	0.9163	0.8369	0.7443	0.6471	0.5518	0.4628	0.3828	0.3127	0.2528	0.2025	0.1608	0.1268
3	1.0000	1.0000	1.0000	0.9919	0.9692	0.9295	0.8740	0.8059	0.7297	0.6496	0.5696	0.4925	0.4206	0.3552	0.2969
4	1.0000	1.0000	1.0000	1.0000	0.9976	0.9891	0.9712	0.9420	0.9012	0.8497	0.7897	0.7237	0.6543	0.5842	0.5155
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9993	0.9962	0.9887	0.9747	0.9527	0.9218	0.8822	0.8346	0.7805	0.7216
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9987	0.9957	0.9894	0.9784	0.9614	0.9376	0.9067	0.8689
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9984	0.9957	0.9905	0.9818	0.9685	0.9500
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9994	0.9983	0.9960	0.9917	0.9848
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9993	0.9983	0.9963
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	0.9999	0.9998	0.9993
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	0.9999
12	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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0033	0.0023	0.0016	0.0011	0.0008	0.0006	0.0004	0.0003	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
1	0.0261	0.0193	0.0142	0.0104	0.0076	0.0056	0.0041	0.0030	0.0022	0.0016	0.0011	0.0008	0.0006	0.0004	0.0003
2	0.0994	0.0774	0.0600	0.0462	0.0355	0.0271	0.0207	0.0157	0.0119	0.0090	0.0067	0.0051	0.0038	0.0028	0.0021
3	0.2459	0.2019	0.1646	0.1332	0.1071	0.0856	0.0681	0.0538	0.0424	0.0332	0.0260	0.0202	0.0157	0.0121	0.0093
4	0.4499	0.3887	0.3327	0.2822	0.2375	0.1984	0.1645	0.1356	0.1111	0.0905	0.0733	0.0591	0.0474	0.0379	0.0302
5	0.6598	0.5968	0.5344	0.4739	0.4164	0.3627	0.3134	0.2688	0.2288	0.1935	0.1626	0.1358	0.1128	0.0932	0.0766
6	0.8247	0.7752	0.7217	0.6655	0.6080	0.5505	0.4942	0.4399	0.3886	0.3407	0.2965	0.2563	0.2202	0.1880	0.1595
7	0.9256	0.8954	0.8593	0.8180	0.7723	0.7230	0.6713	0.6181	0.5647	0.5118	0.4605	0.4113	0.3648	0.3214	0.2814
8	0.9743	0.9597	0.9404	0.9161	0.8867	0.8523	0.8135	0.7709	0.7250	0.6769	0.6274	0.5773	0.5275	0.4787	0.4315
9	0.9929	0.9873	0.9790	0.9674	0.9520	0.9324	0.9084	0.8799	0.8472	0.8106	0.7705	0.7276	0.6825	0.6360	0.5888
10	0.9984	0.9968	0.9939	0.9895	0.9829	0.9736	0.9613	0.9454	0.9258	0.9022	0.8747	0.8434	0.8087	0.7708	0.7304
11	0.9997	0.9993	0.9986	0.9972	0.9949	0.9913	0.9860	0.9786	0.9686	0.9558	0.9397	0.9202	0.8972	0.8706	0.8407
12	1.0000	0.9999	0.9997	0.9994	0.9987	0.9976	0.9957	0.9928	0.9885	0.9825	0.9745	0.9641	0.9509	0.9348	0.9155
13	1.0000	1.0000	1.0000	0.9999	0.9997	0.9994	0.9989	0.9979	0.9964	0.9940	0.9906	0.9857	0.9792	0.9707	0.9599
14	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9990	0.9982	0.9970	0.9950	0.9923	0.9883	0.9831
15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9991	0.9985	0.9975	0.9959	0.9936
16	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9993	0.9987	0.9979
17	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	0.9997	0.9994
18	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
19	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

12.7 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,35$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.6500	0.4225	0.2746	0.1785	0.1160	0.0754	0.0490	0.0319	0.0207	0.0135	0.0088	0.0057	0.0037	0.0024	0.0016
1	1.0000	0.8775	0.7183	0.5630	0.4284	0.3191	0.2338	0.1691	0.1211	0.0860	0.0606	0.0424	0.0296	0.0205	0.0142
2	1.0000	1.0000	0.9571	0.8735	0.7648	0.6471	0.5323	0.4278	0.3373	0.2616	0.2001	0.1513	0.1132	0.0839	0.0617
3	1.0000	1.0000	1.0000	0.9850	0.9460	0.8826	0.8002	0.7064	0.6089	0.5138	0.4256	0.3467	0.2783	0.2205	0.1727
4	1.0000	1.0000	1.0000	1.0000	0.9947	0.9777	0.9444	0.8939	0.8283	0.7515	0.6683	0.5833	0.5005	0.4227	0.3519
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9982	0.9910	0.9747	0.9464	0.9051	0.8513	0.7873	0.7159	0.6405	0.5643
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9994	0.9964	0.9888	0.9740	0.9499	0.9154	0.8705	0.8164	0.7548
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9986	0.9952	0.9878	0.9745	0.9538	0.9247	0.8868
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9980	0.9944	0.9874	0.9757	0.9578
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9992	0.9975	0.9940	0.9876
10	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	0.9989	0.9972
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	0.9999	0.9995
12	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
13	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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0010	0.0007	0.0004	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.0098	0.0067	0.0046	0.0031	0.0021	0.0014	0.0010	0.0007	0.0005	0.0003	0.0002	0.0001	0.0001	0.0001	0.0000
2	0.0451	0.0327	0.0236	0.0170	0.0121	0.0086	0.0061	0.0043	0.0030	0.0021	0.0015	0.0010	0.0007	0.0005	0.0003
3	0.1339	0.1028	0.0783	0.0591	0.0444	0.0331	0.0245	0.0181	0.0133	0.0097	0.0070	0.0051	0.0037	0.0026	0.0019
4	0.2892	0.2348	0.1886	0.1500	0.1182	0.0924	0.0716	0.0551	0.0422	0.0320	0.0242	0.0182	0.0136	0.0101	0.0075
5	0.4900	0.4197	0.3550	0.2968	0.2454	0.2009	0.1629	0.1309	0.1044	0.0826	0.0649	0.0507	0.0393	0.0303	0.0233
6	0.6881	0.6188	0.5491	0.4812	0.4166	0.3567	0.3022	0.2534	0.2106	0.1734	0.1416	0.1148	0.0923	0.0738	0.0586
7	0.8406	0.7872	0.7283	0.6656	0.6010	0.5365	0.4736	0.4136	0.3575	0.3061	0.2596	0.2183	0.1821	0.1507	0.1238
8	0.9329	0.9006	0.8609	0.8145	0.7624	0.7059	0.6466	0.5860	0.5257	0.4668	0.4106	0.3577	0.3089	0.2645	0.2247
9	0.9771	0.9617	0.9403	0.9125	0.8782	0.8377	0.7916	0.7408	0.6866	0.6303	0.5731	0.5162	0.4607	0.4076	0.3575
10	0.9938	0.9880	0.9788	0.9653	0.9468	0.9228	0.8930	0.8575	0.8167	0.7712	0.7219	0.6698	0.6160	0.5617	0.5078
11	0.9987	0.9970	0.9938	0.9886	0.9804	0.9687	0.9526	0.9318	0.9058	0.8746	0.8384	0.7976	0.7529	0.7050	0.6548
12	0.9998	0.9994	0.9986	0.9969	0.9940	0.9892	0.9820	0.9717	0.9577	0.9396	0.9168	0.8894	0.8572	0.8207	0.7802
13	1.0000	0.9999	0.9997	0.9993	0.9985	0.9969	0.9942	0.9900	0.9836	0.9745	0.9623	0.9464	0.9264	0.9022	0.8737
14	1.0000	1.0000	1.0000	0.9999	0.9997	0.9993	0.9984	0.9970	0.9945	0.9907	0.9850	0.9771	0.9663	0.9524	0.9348
15	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9992	0.9984	0.9971	0.9948	0.9914	0.9864	0.9794	0.9699
16	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9985	0.9972	0.9952	0.9921	0.9876
17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9985	0.9973	0.9955
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9986
19	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	0.9996
20	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
21	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

12.8 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,40$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.6000	0.3600	0.2160	0.1296	0.0778	0.0467	0.0280	0.0168	0.0101	0.0060	0.0036	0.0022	0.0013	0.0008	0.0005
1	1.0000	0.8400	0.6480	0.4752	0.3370	0.2333	0.1586	0.1064	0.0705	0.0464	0.0302	0.0196	0.0126	0.0081	0.0052
2	1.0000	1.0000	0.9360	0.8208	0.6826	0.5443	0.4199	0.3154	0.2318	0.1673	0.1189	0.0834	0.0579	0.0398	0.0271
3	1.0000	1.0000	1.0000	0.9744	0.9130	0.8208	0.7102	0.5941	0.4826	0.3823	0.2963	0.2253	0.1686	0.1243	0.0905
4	1.0000	1.0000	1.0000	1.0000	0.9898	0.9590	0.9037	0.8263	0.7334	0.6331	0.5328	0.4382	0.3530	0.2793	0.2173
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9959	0.9812	0.9502	0.9006	0.8338	0.7535	0.6652	0.5744	0.4859	0.4032
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9984	0.9915	0.9750	0.9452	0.9006	0.8418	0.7712	0.6925	0.6098
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9993	0.9962	0.9877	0.9707	0.9427	0.9023	0.8499	0.7869
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9983	0.9941	0.9847	0.9679	0.9417	0.9050
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9993	0.9972	0.9922	0.9825	0.9662
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9987	0.9961	0.9907
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	0.9999	0.9994	0.9981
12	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	0.9997
13	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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.0033	0.0021	0.0013	0.0008	0.0005	0.0003	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0183	0.0123	0.0082	0.0055	0.0036	0.0024	0.0016	0.0010	0.0007	0.0004	0.0003	0.0002	0.0001	0.0001	0.0000
3	0.0651	0.0464	0.0328	0.0230	0.0160	0.0110	0.0076	0.0052	0.0035	0.0024	0.0016	0.0011	0.0007	0.0005	0.0003
4	0.1666	0.1260	0.0942	0.0696	0.0510	0.0370	0.0266	0.0190	0.0134	0.0095	0.0066	0.0046	0.0032	0.0022	0.0015
5	0.3288	0.2639	0.2088	0.1629	0.1256	0.0957	0.0722	0.0540	0.0400	0.0294	0.0214	0.0155	0.0111	0.0080	0.0057
6	0.5272	0.4478	0.3743	0.3081	0.2500	0.2002	0.1584	0.1240	0.0960	0.0736	0.0559	0.0421	0.0315	0.0233	0.0172
7	0.7161	0.6405	0.5634	0.4878	0.4159	0.3495	0.2898	0.2373	0.1919	0.1536	0.1216	0.0953	0.0740	0.0570	0.0435
8	0.8577	0.8011	0.7368	0.6675	0.5956	0.5237	0.4540	0.3884	0.3279	0.2735	0.2255	0.1839	0.1485	0.1187	0.0940
9	0.9417	0.9081	0.8653	0.8139	0.7553	0.6914	0.6244	0.5562	0.4891	0.4246	0.3642	0.3087	0.2588	0.2147	0.1763
10	0.9809	0.9652	0.9424	0.9115	0.8725	0.8256	0.7719	0.7129	0.6502	0.5858	0.5213	0.4585	0.3986	0.3427	0.2915
11	0.9951	0.9894	0.9797	0.9648	0.9435	0.9151	0.8793	0.8364	0.7870	0.7323	0.6737	0.6127	0.5510	0.4900	0.4311
12	0.9991	0.9975	0.9942	0.9884	0.9790	0.9648	0.9449	0.9187	0.8857	0.8462	0.8007	0.7499	0.6950	0.6374	0.5785
13	0.9999	0.9995	0.9987	0.9969	0.9935	0.9877	0.9785	0.9651	0.9465	0.9222	0.8918	0.8553	0.8132	0.7659	0.7145
14	1.0000	0.9999	0.9998	0.9994	0.9984	0.9964	0.9930	0.9872	0.9783	0.9656	0.9482	0.9257	0.8975	0.8638	0.8246
15	1.0000	1.0000	1.0000	0.9999	0.9997	0.9992	0.9981	0.9960	0.9925	0.9868	0.9783	0.9663	0.9501	0.9290	0.9029
16	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9996	0.9990	0.9978	0.9957	0.9921	0.9866	0.9785	0.9671	0.9519
17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9988	0.9975	0.9954	0.9919	0.9865	0.9788
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9993	0.9986	0.9973	0.9951	0.9917
19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9992	0.9985	0.9971
20	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	0.9996	0.9991
21	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
22	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

12.9 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,45$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.5500	0.3025	0.1664	0.0915	0.0503	0.0277	0.0152	0.0084	0.0046	0.0025	0.0014	0.0008	0.0004	0.0002	0.0001
1	1.0000	0.7975	0.5748	0.3910	0.2562	0.1636	0.1024	0.0632	0.0385	0.0233	0.0139	0.0083	0.0049	0.0029	0.0017
2	1.0000	1.0000	0.9089	0.7585	0.5931	0.4415	0.3164	0.2201	0.1495	0.0996	0.0652	0.0421	0.0269	0.0170	0.0107
3	1.0000	1.0000	1.0000	0.9590	0.8688	0.7447	0.6083	0.4770	0.3614	0.2660	0.1911	0.1345	0.0929	0.0632	0.0424
4	1.0000	1.0000	1.0000	1.0000	0.9815	0.9308	0.8471	0.7396	0.6214	0.5044	0.3971	0.3044	0.2279	0.1672	0.1204
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9917	0.9643	0.9115	0.8342	0.7384	0.6331	0.5269	0.4268	0.3373	0.2608
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9963	0.9819	0.9502	0.8980	0.8262	0.7393	0.6437	0.5461	0.4522
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9983	0.9909	0.9726	0.9390	0.8883	0.8212	0.7414	0.6535
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9992	0.9955	0.9852	0.9644	0.9302	0.8811	0.8182
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9997	0.9978	0.9921	0.9797	0.9574	0.9231
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9989	0.9959	0.9886	0.9745
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9978	0.9937
12	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	0.9989
13	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
14	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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.0010	0.0006	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0066	0.0041	0.0025	0.0015	0.0009	0.0006	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0281	0.0184	0.0120	0.0077	0.0049	0.0031	0.0020	0.0012	0.0008	0.0005	0.0003	0.0002	0.0001	0.0001	0.0000
4	0.0853	0.0596	0.0411	0.0280	0.0189	0.0126	0.0083	0.0055	0.0036	0.0023	0.0015	0.0009	0.0006	0.0004	0.0002
5	0.1976	0.1471	0.1077	0.0777	0.0553	0.0389	0.0271	0.0186	0.0127	0.0086	0.0058	0.0038	0.0025	0.0017	0.0011
6	0.3660	0.2902	0.2258	0.1727	0.1299	0.0964	0.0705	0.0510	0.0364	0.0258	0.0180	0.0125	0.0086	0.0059	0.0040
7	0.5629	0.4743	0.3915	0.3169	0.2520	0.1971	0.1518	0.1152	0.0863	0.0639	0.0467	0.0338	0.0242	0.0172	0.0121
8	0.7441	0.6626	0.5778	0.4940	0.4143	0.3413	0.2764	0.2203	0.1730	0.1340	0.1024	0.0774	0.0578	0.0427	0.0312
9	0.8759	0.8166	0.7473	0.6710	0.5914	0.5117	0.4350	0.3636	0.2991	0.2424	0.1936	0.1526	0.1187	0.0913	0.0694
10	0.9514	0.9174	0.8720	0.8159	0.7507	0.6790	0.6037	0.5278	0.4539	0.3843	0.3204	0.2633	0.2135	0.1708	0.1350
11	0.9851	0.9699	0.9463	0.9129	0.8692	0.8159	0.7543	0.6865	0.6151	0.5426	0.4713	0.4034	0.3404	0.2833	0.2327
12	0.9965	0.9914	0.9817	0.9658	0.9420	0.9092	0.8672	0.8164	0.7580	0.6937	0.6257	0.5562	0.4875	0.4213	0.3592
13	0.9994	0.9981	0.9951	0.9891	0.9786	0.9621	0.9383	0.9063	0.8659	0.8173	0.7617	0.7005	0.6356	0.5689	0.5025
14	0.9999	0.9997	0.9990	0.9972	0.9936	0.9868	0.9757	0.9589	0.9352	0.9040	0.8650	0.8185	0.7654	0.7070	0.6448
15	1.0000	1.0000	0.9999	0.9995	0.9985	0.9963	0.9920	0.9847	0.9731	0.9560	0.9326	0.9022	0.8645	0.8199	0.7691
16	1.0000	1.0000	1.0000	0.9999	0.9997	0.9992	0.9979	0.9952	0.9905	0.9826	0.9707	0.9536	0.9304	0.9008	0.8644
17	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9988	0.9972	0.9942	0.9890	0.9807	0.9685	0.9514	0.9286
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9993	0.9984	0.9965	0.9931	0.9875	0.9790	0.9666
19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9991	0.9979	0.9957	0.9920	0.9862
20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9995	0.9988	0.9974	0.9950
21	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	0.9993	0.9984
22	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	0.9996
23	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
24	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

12.10 Verteilungsfunktion $F(x)$ der Binomialverteilung für $p = 0,50$

$x \backslash n$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.5000	0.2500	0.1250	0.0625	0.0312	0.0156	0.0078	0.0039	0.0020	0.0010	0.0005	0.0002	0.0001	0.0001	0.0000
1	1.0000	0.7500	0.5000	0.3125	0.1875	0.1094	0.0625	0.0352	0.0195	0.0107	0.0059	0.0032	0.0017	0.0009	0.0005
2	1.0000	1.0000	0.8750	0.6875	0.5000	0.3438	0.2266	0.1445	0.0898	0.0547	0.0327	0.0193	0.0112	0.0065	0.0037
3	1.0000	1.0000	1.0000	0.9375	0.8125	0.6562	0.5000	0.3633	0.2539	0.1719	0.1133	0.0730	0.0461	0.0287	0.0176
4	1.0000	1.0000	1.0000	1.0000	0.9688	0.8906	0.7734	0.6367	0.5000	0.3770	0.2744	0.1938	0.1334	0.0898	0.0592
5	1.0000	1.0000	1.0000	1.0000	1.0000	0.9844	0.9375	0.8555	0.7461	0.6230	0.5000	0.3872	0.2905	0.2120	0.1509
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9922	0.9648	0.9102	0.8281	0.7256	0.6128	0.5000	0.3953	0.3036
7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9961	0.9805	0.9453	0.8867	0.8062	0.7095	0.6047	0.5000
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9980	0.9893	0.9673	0.9270	0.8666	0.7880	0.6964
9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9990	0.9941	0.9807	0.9539	0.9102	0.8491
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9995	0.9968	0.9888	0.9713	0.9408
11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9983	0.9935	0.9824
12	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	0.9991	0.9963
13	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	0.9995
14	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
$x \backslash n$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.0003	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0021	0.0012	0.0007	0.0004	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0106	0.0064	0.0038	0.0022	0.0013	0.0007	0.0004	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0384	0.0245	0.0154	0.0096	0.0059	0.0036	0.0022	0.0013	0.0008	0.0005	0.0003	0.0002	0.0001	0.0001	0.0000
5	0.1051	0.0717	0.0481	0.0318	0.0207	0.0133	0.0085	0.0053	0.0033	0.0020	0.0012	0.0008	0.0005	0.0003	0.0002
6	0.2272	0.1662	0.1189	0.0835	0.0577	0.0392	0.0262	0.0173	0.0113	0.0073	0.0047	0.0030	0.0019	0.0012	0.0007
7	0.4018	0.3145	0.2403	0.1796	0.1316	0.0946	0.0669	0.0466	0.0320	0.0216	0.0145	0.0096	0.0063	0.0041	0.0026
8	0.5982	0.5000	0.4073	0.3238	0.2517	0.1917	0.1431	0.1050	0.0758	0.0539	0.0378	0.0261	0.0178	0.0121	0.0081
9	0.7728	0.6855	0.5927	0.5000	0.4119	0.3318	0.2617	0.2024	0.1537	0.1148	0.0843	0.0610	0.0436	0.0307	0.0214
10	0.8949	0.8338	0.7597	0.6762	0.5881	0.5000	0.4159	0.3388	0.2706	0.2122	0.1635	0.1239	0.0925	0.0680	0.0494
11	0.9616	0.9283	0.8811	0.8204	0.7483	0.6682	0.5841	0.5000	0.4194	0.3450	0.2786	0.2210	0.1725	0.1325	0.1002
12	0.9894	0.9755	0.9519	0.9165	0.8684	0.8083	0.7383	0.6612	0.5806	0.5000	0.4225	0.3506	0.2858	0.2291	0.1808
13	0.9979	0.9936	0.9846	0.9682	0.9423	0.9054	0.8569	0.7976	0.7294	0.6550	0.5775	0.5000	0.4253	0.3555	0.2923
14	0.9997	0.9988	0.9962	0.9904	0.9793	0.9608	0.9331	0.8950	0.8463	0.7878	0.7214	0.6494	0.5747	0.5000	0.4278
15	1.0000	0.9999	0.9993	0.9978	0.9941	0.9867	0.9738	0.9534	0.9242	0.8852	0.8365	0.7790	0.7142	0.6445	0.5722
16	1.0000	1.0000	0.9999	0.9996	0.9987	0.9964	0.9915	0.9827	0.9680	0.9461	0.9157	0.8761	0.8275	0.7709	0.7077
17	1.0000	1.0000	1.0000	1.0000	0.9998	0.9993	0.9978	0.9947	0.9887	0.9784	0.9622	0.9390	0.9075	0.8675	0.8192
18	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9987	0.9967	0.9927	0.9855	0.9739	0.9564	0.9320	0.8998
19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9992	0.9980	0.9953	0.9904	0.9822	0.9693	0.9506
20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0.9988	0.9970	0.9937	0.9879	0.9786
21	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9992	0.9981	0.9959	0.9919
22	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9998	0.9995	0.9988	0.9974
23	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	0.9993
24	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
25	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

12.11 Verteilungsfunktion $F(x)$ der Poissonverteilung für $\lambda = 0, 10$ bis 4, 50

$x \backslash \lambda$	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
0	0.9048	0.8187	0.7408	0.6703	0.6065	0.5488	0.4966	0.4493	0.4066	0.3679	0.3329	0.3012	0.2725	0.2466	0.2231
1	0.9953	0.9825	0.9631	0.9384	0.9098	0.8781	0.8442	0.8088	0.7725	0.7358	0.6990	0.6626	0.6268	0.5918	0.5578
2	0.9998	0.9989	0.9964	0.9921	0.9856	0.9769	0.9659	0.9526	0.9371	0.9197	0.9004	0.8795	0.8571	0.8335	0.8088
3	1.0000	0.9999	0.9997	0.9992	0.9982	0.9966	0.9942	0.9909	0.9865	0.9810	0.9743	0.9662	0.9569	0.9463	0.9344
4	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9986	0.9977	0.9963	0.9946	0.9923	0.9893	0.9857	0.9814
5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9997	0.9994	0.9990	0.9985	0.9978	0.9968	0.9955
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9996	0.9994	0.9991
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	0.9999	0.9999	0.9998
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

$x \backslash \lambda$	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0	0.2019	0.1827	0.1653	0.1496	0.1353	0.1225	0.1108	0.1003	0.0907	0.0821	0.0743	0.0672	0.0608	0.0550	0.0498
1	0.5249	0.4932	0.4628	0.4337	0.4060	0.3796	0.3546	0.3309	0.3084	0.2873	0.2674	0.2487	0.2311	0.2146	0.1991
2	0.7834	0.7572	0.7306	0.7037	0.6767	0.6496	0.6227	0.5960	0.5697	0.5438	0.5184	0.4936	0.4695	0.4460	0.4232
3	0.9212	0.9068	0.8913	0.8747	0.8571	0.8386	0.8194	0.7993	0.7787	0.7576	0.7360	0.7141	0.6919	0.6696	0.6472
4	0.9763	0.9704	0.9636	0.9559	0.9473	0.9379	0.9275	0.9162	0.9041	0.8912	0.8774	0.8629	0.8477	0.8318	0.8153
5	0.9940	0.9920	0.9896	0.9868	0.9834	0.9796	0.9751	0.9700	0.9643	0.9580	0.9510	0.9433	0.9349	0.9258	0.9161
6	0.9987	0.9981	0.9974	0.9966	0.9955	0.9941	0.9925	0.9906	0.9884	0.9858	0.9828	0.9794	0.9756	0.9713	0.9665
7	0.9997	0.9996	0.9994	0.9992	0.9989	0.9985	0.9980	0.9974	0.9967	0.9958	0.9947	0.9934	0.9919	0.9901	0.9881
8	1.0000	0.9999	0.9999	0.9998	0.9998	0.9997	0.9995	0.9994	0.9991	0.9989	0.9985	0.9981	0.9976	0.9969	0.9962
9	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9998	0.9997	0.9996	0.9995	0.9993	0.9991	0.9989
10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9998	0.9998	0.9997
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	0.9999	0.9999
12	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

$x \backslash \lambda$	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	4.00	4.10	4.20	4.30	4.40	4.50
0	0.0450	0.0408	0.0369	0.0334	0.0302	0.0273	0.0247	0.0224	0.0202	0.0183	0.0166	0.0150	0.0136	0.0123	0.0111
1	0.1847	0.1712	0.1586	0.1468	0.1359	0.1257	0.1162	0.1074	0.0992	0.0916	0.0845	0.0780	0.0719	0.0663	0.0611
2	0.4012	0.3799	0.3594	0.3397	0.3208	0.3027	0.2854	0.2689	0.2531	0.2381	0.2238	0.2102	0.1974	0.1851	0.1736
3	0.6248	0.6025	0.5803	0.5584	0.5366	0.5152	0.4942	0.4735	0.4532	0.4335	0.4142	0.3954	0.3772	0.3594	0.3423
4	0.7982	0.7806	0.7626	0.7442	0.7254	0.7064	0.6872	0.6678	0.6484	0.6288	0.6093	0.5898	0.5704	0.5512	0.5321
5	0.9057	0.8946	0.8829	0.8705	0.8576	0.8441	0.8301	0.8156	0.8006	0.7851	0.7693	0.7531	0.7367	0.7199	0.7029
6	0.9612	0.9554	0.9490	0.9421	0.9347	0.9267	0.9182	0.9091	0.8995	0.8893	0.8786	0.8675	0.8558	0.8436	0.8311
7	0.9858	0.9832	0.9802	0.9769	0.9733	0.9692	0.9648	0.9599	0.9546	0.9489	0.9427	0.9361	0.9290	0.9214	0.9134
8	0.9953	0.9943	0.9931	0.9917	0.9901	0.9883	0.9863	0.9840	0.9815	0.9786	0.9755	0.9721	0.9683	0.9642	0.9597
9	0.9986	0.9982	0.9978	0.9973	0.9967	0.9960	0.9952	0.9942	0.9931	0.9919	0.9905	0.9889	0.9871	0.9851	0.9829
10	0.9996	0.9995	0.9994	0.9992	0.9990	0.9987	0.9984	0.9981	0.9977	0.9972	0.9966	0.9959	0.9952	0.9943	0.9933
11	0.9999	0.9999	0.9998	0.9998	0.9997	0.9996	0.9995	0.9994	0.9993	0.9991	0.9989	0.9986	0.9983	0.9980	0.9976
12	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9999	0.9998	0.9998	0.9997	0.9997	0.9996	0.9995	0.9993	0.9992
13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	0.9999	0.9998	0.9998	0.9997
14	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
15	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

12.12 Verteilungsfunktion $F(x)$ der Poissonverteilung für $\lambda = 4,60$ bis $10,00$

$x \backslash \lambda$	4.60	4.70	4.80	4.90	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
0	0.0101	0.0091	0.0082	0.0074	0.0067	0.0041	0.0025	0.0015	0.0009	0.0006	0.0003	0.0002	0.0001	0.0001	0.0000
1	0.0563	0.0518	0.0477	0.0439	0.0404	0.0266	0.0174	0.0113	0.0073	0.0047	0.0030	0.0019	0.0012	0.0008	0.0005
2	0.1626	0.1523	0.1425	0.1333	0.1247	0.0884	0.0620	0.0430	0.0296	0.0203	0.0138	0.0093	0.0062	0.0042	0.0028
3	0.3257	0.3097	0.2942	0.2793	0.2650	0.2017	0.1512	0.1118	0.0818	0.0591	0.0424	0.0301	0.0212	0.0149	0.0103
4	0.5132	0.4946	0.4763	0.4582	0.4405	0.3575	0.2851	0.2237	0.1730	0.1321	0.0996	0.0744	0.0550	0.0403	0.0293
5	0.6858	0.6684	0.6510	0.6335	0.6160	0.5289	0.4457	0.3690	0.3007	0.2414	0.1912	0.1496	0.1157	0.0885	0.0671
6	0.8180	0.8046	0.7908	0.7767	0.7622	0.6860	0.6063	0.5265	0.4497	0.3782	0.3134	0.2562	0.2068	0.1649	0.1301
7	0.9049	0.8960	0.8867	0.8769	0.8666	0.8095	0.7440	0.6728	0.5987	0.5246	0.4530	0.3856	0.3239	0.2687	0.2202
8	0.9549	0.9497	0.9442	0.9382	0.9319	0.8944	0.8472	0.7916	0.7291	0.6620	0.5925	0.5231	0.4557	0.3918	0.3328
9	0.9805	0.9778	0.9749	0.9717	0.9682	0.9462	0.9161	0.8774	0.8305	0.7764	0.7166	0.6530	0.5874	0.5218	0.4579
10	0.9922	0.9910	0.9896	0.9880	0.9863	0.9747	0.9574	0.9332	0.9015	0.8622	0.8159	0.7634	0.7060	0.6453	0.5830
11	0.9971	0.9966	0.9960	0.9953	0.9945	0.9890	0.9799	0.9661	0.9467	0.9208	0.8881	0.8487	0.8030	0.7520	0.6968
12	0.9990	0.9988	0.9986	0.9983	0.9980	0.9955	0.9912	0.9840	0.9730	0.9573	0.9362	0.9091	0.8758	0.8364	0.7916
13	0.9997	0.9996	0.9995	0.9994	0.9993	0.9983	0.9964	0.9929	0.9872	0.9784	0.9658	0.9486	0.9261	0.8981	0.8645
14	0.9999	0.9999	0.9999	0.9998	0.9998	0.9994	0.9986	0.9970	0.9943	0.9897	0.9827	0.9726	0.9585	0.9400	0.9165
15	1.0000	1.0000	1.0000	0.9999	0.9999	0.9998	0.9995	0.9988	0.9976	0.9954	0.9918	0.9862	0.9780	0.9665	0.9513
16	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9990	0.9980	0.9963	0.9934	0.9889	0.9823	0.9730
17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9984	0.9970	0.9947	0.9911	0.9857
18	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9993	0.9987	0.9976	0.9957	0.9928
19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9997	0.9995	0.9989	0.9980	0.9965
20	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9991	0.9984	
21	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9996	0.9993	
22	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	0.9997	
23	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	
24	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	

12.13 α -Fraktile der χ^2 -Verteilung mit f Freiheitsgraden

$\alpha - 1 \backslash f$	1	2	3	4	5	6	7	8	9	10	$f \backslash \alpha - 1$
0.005	0.00	0.01	0.07	0.21	0.41	0.68	0.99	1.34	1.73	2.16	0.005
0.010	0.00	0.02	0.11	0.30	0.55	0.87	1.24	1.65	2.09	2.56	0.010
0.025	0.00	0.05	0.22	0.48	0.83	1.24	1.69	2.18	2.70	3.25	0.025
0.050	0.00	0.10	0.35	0.71	1.15	1.64	2.17	2.73	3.33	3.94	0.050
0.100	0.02	0.21	0.58	1.06	1.61	2.20	2.83	3.49	4.17	4.87	0.100
0.200	0.06	0.45	1.01	1.65	2.34	3.07	3.82	4.59	5.38	6.18	0.200
0.250	0.10	0.58	1.21	1.92	2.67	3.45	4.25	5.07	5.90	6.74	0.250
0.400	0.27	1.02	1.87	2.75	3.66	4.57	5.49	6.42	7.36	8.30	0.400
0.500	0.45	1.39	2.37	3.36	4.35	5.35	6.35	7.34	8.34	9.34	0.500
0.600	0.71	1.83	2.95	4.04	5.13	6.21	7.28	8.35	9.41	10.47	0.600
0.750	1.32	2.77	4.11	5.39	6.63	7.84	9.04	10.22	11.39	12.55	0.750
0.800	1.64	3.22	4.64	5.99	7.29	8.56	9.80	11.03	12.24	13.44	0.800
0.900	2.71	4.61	6.25	7.78	9.24	10.64	12.02	13.36	14.68	15.99	0.900
0.950	3.84	5.99	7.81	9.49	11.07	12.59	14.07	15.51	16.92	18.31	0.950
0.975	5.02	7.38	9.35	11.14	12.83	14.45	16.01	17.53	19.02	20.48	0.975
0.990	6.63	9.21	11.34	13.28	15.09	16.81	18.48	20.09	21.67	23.21	0.990
0.995	7.88	10.60	12.84	14.86	16.75	18.55	20.28	21.95	23.59	25.19	0.995

$\alpha - 1 \backslash f$	11	12	13	14	15	16	17	18	19	20	$f \backslash \alpha - 1$
0.005	2.60	3.07	3.57	4.07	4.60	5.14	5.70	6.26	6.84	7.43	0.005
0.010	3.05	3.57	4.11	4.66	5.23	5.81	6.41	7.01	7.63	8.26	0.010
0.025	3.82	4.40	5.01	5.63	6.26	6.91	7.56	8.23	8.91	9.59	0.025
0.050	4.57	5.23	5.89	6.57	7.26	7.96	8.67	9.39	10.12	10.85	0.050
0.100	5.58	6.30	7.04	7.79	8.55	9.31	10.09	10.86	11.65	12.44	0.100
0.200	6.99	7.81	8.63	9.47	10.31	11.15	12.00	12.86	13.72	14.58	0.200
0.250	7.58	8.44	9.30	10.17	11.04	11.91	12.79	13.68	14.56	15.45	0.250
0.400	9.24	10.18	11.13	12.08	13.03	13.98	14.94	15.89	16.85	17.81	0.400
0.500	10.34	11.34	12.34	13.34	14.34	15.34	16.34	17.34	18.34	19.34	0.500
0.600	11.53	12.58	13.64	14.69	15.73	16.78	17.82	18.87	19.91	20.95	0.600
0.750	13.70	14.85	15.98	17.12	18.25	19.37	20.49	21.60	22.72	23.83	0.750
0.800	14.63	15.81	16.98	18.15	19.31	20.47	21.61	22.76	23.90	25.04	0.800
0.900	17.28	18.55	19.81	21.06	22.31	23.54	24.77	25.99	27.20	28.41	0.900
0.950	19.68	21.03	22.36	23.68	25.00	26.30	27.59	28.87	30.14	31.41	0.950
0.975	21.92	23.34	24.74	26.12	27.49	28.85	30.19	31.53	32.85	34.17	0.975
0.990	24.72	26.22	27.69	29.14	30.58	32.00	33.41	34.81	36.19	37.57	0.990
0.995	26.76	28.30	29.82	31.32	32.80	34.27	35.72	37.16	38.58	40.00	0.995

$\alpha - 1 \backslash f$	31	32	33	34	35	36	37	38	39	40	$f \backslash \alpha - 1$
0.005	8.03	8.64	9.26	9.89	10.52	11.16	11.81	12.46	13.12	13.79	0.005
0.010	8.90	9.54	10.20	10.86	11.52	12.20	12.88	13.56	14.26	14.95	0.010
0.025	10.28	10.98	11.69	12.40	13.12	13.84	14.57	15.31	16.05	16.79	0.025
0.050	11.59	12.34	13.09	13.85	14.61	15.38	16.15	16.93	17.71	18.49	0.050
0.100	13.24	14.04	14.85	15.66	16.47	17.29	18.11	18.94	19.77	20.60	0.100
0.200	15.44	16.31	17.19	18.06	18.94	19.82	20.70	21.59	22.48	23.36	0.200
0.250	16.34	17.24	18.14	19.04	19.94	20.84	21.75	22.66	23.57	24.48	0.250
0.400	18.77	19.73	20.69	21.65	22.62	23.58	24.54	25.51	26.48	27.44	0.400
0.500	20.34	21.34	22.34	23.34	24.34	25.34	26.34	27.34	28.34	29.34	0.500
0.600	21.99	23.03	24.07	25.11	26.14	27.18	28.21	29.25	30.28	31.32	0.600
0.750	24.93	26.04	27.14	28.24	29.34	30.43	31.53	32.62	33.71	34.80	0.750
0.800	26.17	27.30	28.43	29.55	30.68	31.79	32.91	34.03	35.14	36.25	0.800
0.900	29.62	30.81	32.01	33.20	34.38	35.56	36.74	37.92	39.09	40.26	0.900
0.950	32.67	33.92	35.17	36.42	37.65	38.89	40.11	41.34	42.56	43.77	0.950
0.975	35.48	36.78	38.08	39.36	40.65	41.92	43.19	44.46	45.72	46.98	0.975
0.990	38.93	40.29	41.64	42.98	44.31	45.64	46.96	48.28	49.59	50.89	0.990
0.995	41.40	42.80	44.18	45.56	46.93	48.29	49.64	50.99	52.34	53.67	0.995

12.14 α -Fraktile der t -Verteilung mit f Freiheitsgraden

$1 - \alpha \backslash f$	1	2	3	4	5	6	7	8	9	10	$f \backslash 1 - \alpha$
0.600	0.325	0.289	0.277	0.271	0.267	0.265	0.263	0.262	0.261	0.260	0.600
0.750	1.000	0.817	0.765	0.741	0.727	0.718	0.711	0.706	0.703	0.700	0.750
0.800	1.376	1.061	0.979	0.941	0.920	0.906	0.896	0.889	0.883	0.879	0.800
0.900	3.078	1.886	1.638	1.533	1.476	1.440	1.415	1.397	1.383	1.372	0.900
0.950	6.314	2.920	2.353	2.132	2.015	1.943	1.895	1.860	1.833	1.813	0.950
0.975	12.706	4.303	3.182	2.776	2.571	2.447	2.365	2.306	2.262	2.228	0.975
0.990	31.821	6.965	4.541	3.747	3.365	3.142	2.998	2.897	2.821	2.764	0.990
0.995	63.657	9.925	5.841	4.604	4.032	3.707	3.500	3.355	3.250	3.169	0.995

$1 - \alpha \backslash f$	11	12	13	14	15	16	17	18	19	20	$f \backslash 1 - \alpha$
0.600	0.260	0.259	0.259	0.258	0.258	0.258	0.257	0.257	0.257	0.257	0.600
0.750	0.697	0.696	0.694	0.692	0.691	0.690	0.689	0.688	0.688	0.687	0.750
0.800	0.876	0.873	0.870	0.861	0.866	0.865	0.863	0.862	0.861	0.860	0.800
0.900	1.363	1.356	1.350	1.345	1.341	1.337	1.333	1.330	1.328	1.325	0.900
0.950	1.796	1.782	1.771	1.761	1.753	1.746	1.740	1.734	1.729	1.725	0.950
0.975	2.201	2.179	2.160	2.145	2.131	2.120	2.110	2.101	2.093	2.086	0.975
0.990	2.718	2.681	2.650	2.625	2.603	2.584	2.567	2.552	2.540	2.528	0.990
0.995	3.106	3.055	3.012	2.977	2.947	2.921	2.898	2.878	2.861	2.845	0.995

$1 - \alpha \backslash f$	21	22	23	24	25	26	27	28	29	30	$f \backslash 1 - \alpha$
0.600	0.257	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.600
0.750	0.686	0.686	0.685	0.685	0.684	0.684	0.684	0.683	0.683	0.683	0.750
0.800	0.859	0.858	0.858	0.857	0.856	0.856	0.855	0.855	0.854	0.854	0.800
0.900	1.323	1.321	1.320	1.318	1.316	1.315	1.314	1.313	1.311	1.310	0.900
0.950	1.721	1.717	1.714	1.711	1.708	1.706	1.703	1.701	1.699	1.697	0.950
0.975	2.080	2.074	2.069	2.064	2.060	2.056	2.052	2.048	2.045	2.042	0.975
0.990	2.518	2.508	2.500	2.492	2.485	2.479	2.473	2.467	2.462	2.457	0.990
0.995	2.831	2.819	2.807	2.797	2.787	2.779	2.771	2.763	2.756	2.750	0.995

12.15 0,95-Fraktile der F -Verteilung mit f_1 und f_2 Freiheitsgraden

$f_1 \backslash f_2$	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	100	$f_2 \backslash f_1$
1	161.45	18.51	10.13	7.71	6.61	5.99	5.59	5.32	5.12	4.96	4.54	4.35	4.17	4.08	4.03	3.94	1
2	199.50	19.00	9.55	6.94	5.79	5.14	4.74	4.46	4.26	4.10	3.68	3.49	3.32	3.23	3.18	3.09	2
3	215.71	19.16	9.28	6.59	5.41	4.76	4.35	4.07	3.86	3.71	3.29	3.10	2.92	2.84	2.79	2.70	3
4	224.58	19.25	9.12	6.39	5.19	4.53	4.12	3.84	3.63	3.48	3.06	2.87	2.69	2.61	2.56	2.46	4
5	230.16	19.30	9.01	6.26	5.05	4.39	3.97	3.69	3.48	3.33	2.90	2.71	2.53	2.45	2.40	2.31	5
6	233.99	19.33	8.94	6.16	4.95	4.28	3.87	3.58	3.37	3.22	2.79	2.60	2.42	2.34	2.29	2.19	6
7	236.77	19.35	8.89	6.09	4.88	4.21	3.79	3.50	3.29	3.14	2.71	2.51	2.33	2.25	2.20	2.10	7
8	238.88	19.37	8.85	6.04	4.82	4.15	3.73	3.44	3.23	3.07	2.64	2.45	2.27	2.18	2.13	2.03	8
9	240.54	19.38	8.81	6.00	4.77	4.10	3.68	3.39	3.18	3.02	2.59	2.39	2.21	2.12	2.07	1.97	9
10	241.88	19.40	8.79	5.96	4.74	4.06	3.64	3.35	3.14	2.98	2.54	2.35	2.16	2.08	2.03	1.93	10
15	245.95	19.43	8.70	5.86	4.62	3.94	3.51	3.22	3.01	2.85	2.40	2.20	2.01	1.92	1.87	1.77	15
20	248.01	19.45	8.66	5.80	4.56	3.87	3.44	3.15	2.94	2.77	2.33	2.12	1.93	1.84	1.78	1.68	20
30	250.10	19.46	8.62	5.75	4.50	3.81	3.38	3.08	2.86	2.70	2.25	2.04	1.84	1.74	1.69	1.57	30
40	251.14	19.47	8.59	5.72	4.46	3.77	3.34	3.04	2.83	2.66	2.20	1.99	1.79	1.69	1.63	1.52	40
50	251.77	19.48	8.58	5.70	4.44	3.75	3.32	3.02	2.80	2.64	2.18	1.97	1.76	1.66	1.60	1.48	50
100	253.04	19.49	8.55	5.66	4.41	3.71	3.27	2.97	2.76	2.59	2.12	1.91	1.70	1.59	1.52	1.39	100

12.16 0,99-Fraktile der F -Verteilung mit f_1 und f_2 Freiheitsgraden

$f_1 \backslash f_2$	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	100	$f_2 \backslash f_1$
1	4052.18	98.50	34.12	21.20	16.26	13.75	12.25	11.26	10.56	10.04	8.68	8.10	7.56	7.31	7.17	6.90	1
2	4999.50	99.00	30.82	18.00	13.27	10.92	9.55	8.65	8.02	7.56	6.36	5.85	5.39	5.18	5.06	4.82	2
3	5403.35	99.17	29.46	16.69	12.06	9.78	8.45	7.59	6.99	6.55	5.42	4.94	4.51	4.31	4.20	3.98	3
4	5624.58	99.25	28.71	15.98	11.39	9.15	7.85	7.01	6.42	5.99	4.89	4.43	4.02	3.83	3.72	3.51	4
5	5763.65	99.30	28.24	15.52	10.97	8.75	7.46	6.63	6.06	5.64	4.56	4.10	3.70	3.51	3.41	3.21	5
6	5858.99	99.33	27.91	15.21	10.67	8.47	7.19	6.37	5.80	5.39	4.32	3.87	3.47	3.29	3.19	2.99	6
7	5928.36	99.36	27.67	14.98	10.46	8.26	6.99	6.18	5.61	5.20	4.14	3.70	3.30	3.12	3.02	2.82	7
8	5981.07	99.37	27.49	14.80	10.29	8.10	6.84	6.03	5.47	5.06	4.00	3.56	3.17	2.99	2.89	2.69	8
9	6022.47	99.39	27.35	14.66	10.16	7.98	6.72	5.91	5.35	4.94	3.89	3.46	3.07	2.89	2.78	2.59	9
10	6055.85	99.40	27.23	14.55	10.05	7.87	6.62	5.81	5.26	4.85	3.80	3.37	2.98	2.80	2.70	2.50	10
15	6157.28	99.43	26.87	14.20	9.72	7.56	6.31	5.52	4.96	4.56	3.52	3.09	2.70	2.52	2.42	2.22	15
20	6208.73	99.45	26.69	14.02	9.55	7.40	6.16	5.36	4.81	4.41	3.37	2.94	2.55	2.37	2.27	2.07	20
30	6260.65	99.47	26.50	13.84	9.38	7.23	5.99	5.20	4.65	4.25	3.21	2.78	2.39	2.20	2.10	1.89	30
40	6286.78	99.47	26.41	13.75	9.29	7.14	5.91	5.12	4.57	4.17	3.13	2.69	2.30	2.11	2.01	1.80	40
50	6302.52	99.48	26.35	13.69	9.24	7.09	5.86	5.07	4.52	4.12	3.08	2.64	2.25	2.06	1.95	1.74	50
100	6334.11	99.49	26.24	13.58	9.13	6.99	5.75	4.96	4.41	4.01	2.98	2.54	2.13	1.94	1.82	1.60	100

12.17 Verteilungsfunktion Φ der Standardnormalverteilung

	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.500000	0.503989	0.507979	0.511967	0.515954	0.519939	0.523923	0.527904	0.531882	0.535857
0.1	0.539829	0.543797	0.547760	0.551718	0.555672	0.559619	0.563561	0.567497	0.571426	0.575348
0.2	0.579262	0.583168	0.587067	0.590957	0.594838	0.598709	0.602571	0.606423	0.610264	0.614095
0.3	0.617915	0.621723	0.625519	0.629304	0.633075	0.636834	0.640580	0.644313	0.648031	0.651736
0.4	0.655426	0.659101	0.662762	0.666407	0.670036	0.673650	0.677247	0.680828	0.684391	0.687938
0.5	0.691468	0.694980	0.698474	0.701950	0.705407	0.708846	0.712266	0.715667	0.719049	0.722411
0.6	0.725753	0.729076	0.732378	0.735659	0.738920	0.742161	0.745380	0.748578	0.751755	0.754910
0.7	0.758044	0.761155	0.764245	0.767312	0.770358	0.773380	0.776380	0.779358	0.782312	0.785244
0.8	0.788153	0.791038	0.793900	0.796739	0.799554	0.802346	0.805114	0.807858	0.810579	0.813276
0.9	0.815949	0.818598	0.821223	0.823824	0.826400	0.828953	0.831482	0.833986	0.836466	0.838922
1.0	0.841354	0.843762	0.846145	0.848505	0.850840	0.853151	0.855438	0.857700	0.859939	0.862154
1.1	0.864344	0.866511	0.868653	0.870772	0.872867	0.874939	0.876986	0.879010	0.881011	0.882988
1.2	0.884941	0.886871	0.888778	0.890662	0.892523	0.894361	0.896176	0.897969	0.899739	0.901486
1.3	0.903211	0.904913	0.906594	0.908252	0.909889	0.911504	0.913097	0.914668	0.916218	0.917747
1.4	0.919255	0.920742	0.922208	0.923653	0.925078	0.926483	0.927867	0.929231	0.930575	0.931900
1.5	0.933205	0.934490	0.935757	0.937004	0.938232	0.939442	0.940632	0.941805	0.942959	0.944095
1.6	0.945213	0.946314	0.947396	0.948462	0.949510	0.950541	0.951555	0.952553	0.953534	0.954499
1.7	0.955447	0.956380	0.957297	0.958198	0.959069	0.959940	0.960795	0.961635	0.962461	0.963272
1.8	0.964069	0.964851	0.965620	0.966374	0.967115	0.967842	0.968556	0.969257	0.969945	0.970620
1.9	0.971283	0.971933	0.972570	0.973196	0.973809	0.974411	0.975001	0.975580	0.976148	0.976704
2.0	0.977249	0.977784	0.978308	0.978821	0.979324	0.979817	0.980300	0.980773	0.981237	0.981691
2.1	0.982135	0.982570	0.982996	0.983414	0.983822	0.984222	0.984613	0.984996	0.985371	0.985737
2.2	0.986096	0.986447	0.986790	0.987126	0.987454	0.987775	0.988089	0.988396	0.988696	0.988989
2.3	0.989276	0.989556	0.989829	0.990097	0.990358	0.990613	0.990862	0.991106	0.991343	0.991576
2.4	0.991802	0.992024	0.992240	0.992450	0.992656	0.992857	0.993053	0.993244	0.993431	0.993613
2.5	0.993790	0.993963	0.994132	0.994297	0.994457	0.994614	0.994766	0.994915	0.995060	0.995201
2.6	0.995339	0.995473	0.995603	0.995731	0.995855	0.995975	0.996093	0.996207	0.996319	0.996427
2.7	0.996533	0.996636	0.996736	0.996833	0.996928	0.997020	0.997110	0.997197	0.997282	0.997365
2.8	0.997445	0.997523	0.997599	0.997673	0.997744	0.997814	0.997882	0.997948	0.998012	0.998074
2.9	0.998134	0.998193	0.998250	0.998305	0.998359	0.998411	0.998462	0.998511	0.998559	0.998605
3.0	0.998650	0.998694	0.998736	0.998777	0.998817	0.998856	0.998893	0.998930	0.998965	0.998999
3.1	0.999032	0.999065	0.999096	0.999126	0.999155	0.999184	0.999211	0.999238	0.999264	0.999289
3.2	0.999313	0.999336	0.999359	0.999381	0.999402	0.999423	0.999443	0.999462	0.999481	0.999499
3.3	0.999517	0.999534	0.999550	0.999566	0.999581	0.999596	0.999610	0.999624	0.999638	0.999651
3.4	0.999663	0.999675	0.999687	0.999698	0.999709	0.999720	0.999730	0.999740	0.999749	0.999758
3.5	0.999767	0.999776	0.999784	0.999792	0.999800	0.999807	0.999815	0.999822	0.999828	0.999835
3.6	0.999841	0.999847	0.999853	0.999858	0.999864	0.999869	0.999874	0.999879	0.999883	0.999888
3.7	0.999892	0.999896	0.999900	0.999904	0.999908	0.999912	0.999915	0.999918	0.999922	0.999925
3.8	0.999928	0.999931	0.999933	0.999936	0.999938	0.999941	0.999943	0.999946	0.999948	0.999950
3.9	0.999952	0.999954	0.999956	0.999958	0.999959	0.999961	0.999963	0.999964	0.999966	0.999967
4.0	0.999968	0.999970	0.999971	0.999972	0.999973	0.999974	0.999975	0.999976	0.999977	0.999978
4.1	0.999979	0.999980	0.999981	0.999982	0.999983	0.999983	0.999984	0.999985	0.999985	0.999986
4.2	0.999987	0.999987	0.999988	0.999988	0.999989	0.999989	0.999990	0.999990	0.999991	0.999991
4.3	0.999991	0.999992	0.999992	0.999993	0.999993	0.999993	0.999993	0.999994	0.999994	0.999994
4.4	0.999995	0.999995	0.999995	0.999995	0.999996	0.999996	0.999996	0.999996	0.999996	0.999996