

## CUMULATIVE DISTRIBUTION FUNCTION OF STANDARD NORMAL DISTRIBUTION

The table shows the probability,  $F(z)$ , that a standard normal random variable is less than the number  $z$ . For example the probability is 0.975 that a standard normal r.v. is less than 1.96

z	F(z)	z	F(z)	z	F(z)	z	F(z)	z	F(z)	z	F(z)	z	F(z)
0.00	0.5000	0.53	0.7019	1.06	0.8554	1.59	0.9441	2.12	0.9830	2.65	0.9960	3.18	0.9993
0.01	0.5040	0.54	0.7054	1.07	0.8577	1.60	0.9452	2.13	0.9834	2.66	0.9961	3.19	0.9993
0.02	0.5080	0.55	0.7088	1.08	0.8599	1.61	0.9463	2.14	0.9838	2.67	0.9962	3.20	0.9993
0.03	0.5120	0.56	0.7123	1.09	0.8621	1.62	0.9474	2.15	0.9842	2.68	0.9963	3.21	0.9993
0.04	0.5160	0.57	0.7157	1.10	0.8643	1.63	0.9484	2.16	0.9846	2.69	0.9964	3.22	0.9994
0.05	0.5199	0.58	0.7190	1.11	0.8665	1.64	0.9495	2.17	0.9850	2.70	0.9965	3.23	0.9994
0.06	0.5239	0.59	0.7224	1.12	0.8686	1.65	0.9505	2.18	0.9854	2.71	0.9966	3.24	0.9994
0.07	0.5279	0.60	0.7257	1.13	0.8708	1.66	0.9515	2.19	0.9857	2.72	0.9967	3.25	0.9994
0.08	0.5319	0.61	0.7291	1.14	0.8729	1.67	0.9525	2.20	0.9861	2.73	0.9968	3.26	0.9994
0.09	0.5359	0.62	0.7324	1.15	0.8749	1.68	0.9535	2.21	0.9864	2.74	0.9969	3.27	0.9995
0.10	0.5398	0.63	0.7357	1.16	0.8770	1.69	0.9545	2.22	0.9868	2.75	0.9970	3.28	0.9995
0.11	0.5438	0.64	0.7389	1.17	0.8790	1.70	0.9554	2.23	0.9871	2.76	0.9971	3.29	0.9995
0.12	0.5478	0.65	0.7422	1.18	0.8810	1.71	0.9564	2.24	0.9875	2.77	0.9972	3.30	0.9995
0.13	0.5517	0.66	0.7454	1.19	0.8830	1.72	0.9573	2.25	0.9878	2.78	0.9973	3.31	0.9995
0.14	0.5557	0.67	0.7486	1.20	0.8849	1.73	0.9582	2.26	0.9881	2.79	0.9974	3.32	0.9995
0.15	0.5596	0.68	0.7517	1.21	0.8869	1.74	0.9591	2.27	0.9884	2.80	0.9974	3.33	0.9996
0.16	0.5636	0.69	0.7549	1.22	0.8888	1.75	0.9599	2.28	0.9887	2.81	0.9975	3.34	0.9996
0.17	0.5675	0.70	0.7580	1.23	0.8907	1.76	0.9608	2.29	0.9890	2.82	0.9976	3.35	0.9996
0.18	0.5714	0.71	0.7611	1.24	0.8925	1.77	0.9616	2.30	0.9893	2.83	0.9977	3.36	0.9996
0.19	0.5753	0.72	0.7642	1.25	0.8944	1.78	0.9625	2.31	0.9896	2.84	0.9977	3.37	0.9996
0.20	0.5793	0.73	0.7673	1.26	0.8962	1.79	0.9633	2.32	0.9898	2.85	0.9978	3.38	0.9996
0.21	0.5832	0.74	0.7704	1.27	0.8980	1.80	0.9641	2.33	0.9901	2.86	0.9979	3.39	0.9997
0.22	0.5871	0.75	0.7734	1.28	0.8997	1.81	0.9649	2.34	0.9904	2.87	0.9979	3.40	0.9997
0.23	0.5910	0.76	0.7764	1.29	0.9015	1.82	0.9656	2.35	0.9906	2.88	0.9980	3.41	0.9997
0.24	0.5948	0.77	0.7794	1.30	0.9032	1.83	0.9664	2.36	0.9909	2.89	0.9981	3.42	0.9997
0.25	0.5987	0.78	0.7823	1.31	0.9049	1.84	0.9671	2.37	0.9911	2.90	0.9981	3.43	0.9997
0.26	0.6026	0.79	0.7852	1.32	0.9066	1.85	0.9678	2.38	0.9913	2.91	0.9982	3.44	0.9997
0.27	0.6064	0.80	0.7881	1.33	0.9082	1.86	0.9686	2.39	0.9916	2.92	0.9982	3.45	0.9997
0.28	0.6103	0.81	0.7910	1.34	0.9099	1.87	0.9693	2.40	0.9918	2.93	0.9983	3.46	0.9997
0.29	0.6141	0.82	0.7939	1.35	0.9115	1.88	0.9699	2.41	0.9920	2.94	0.9984	3.47	0.9997
0.30	0.6179	0.83	0.7967	1.36	0.9131	1.89	0.9706	2.42	0.9922	2.95	0.9984	3.48	0.9997
0.31	0.6217	0.84	0.7995	1.37	0.9147	1.90	0.9713	2.43	0.9925	2.96	0.9985	3.49	0.9998
0.32	0.6255	0.85	0.8023	1.38	0.9162	1.91	0.9719	2.44	0.9927	2.97	0.9985	3.50	0.9998
0.33	0.6293	0.86	0.8051	1.39	0.9177	1.92	0.9726	2.45	0.9929	2.98	0.9986	3.51	0.9998
0.34	0.6331	0.87	0.8078	1.40	0.9192	1.93	0.9732	2.46	0.9931	2.99	0.9986	3.52	0.9998
0.35	0.6368	0.88	0.8106	1.41	0.9207	1.94	0.9738	2.47	0.9932	3.00	0.9987	3.53	0.9998
0.36	0.6406	0.89	0.8133	1.42	0.9222	1.95	0.9744	2.48	0.9934	3.01	0.9987	3.54	0.9998
0.37	0.6443	0.90	0.8159	1.43	0.9236	1.96	0.9750	2.49	0.9936	3.02	0.9987	3.55	0.9998
0.38	0.6480	0.91	0.8186	1.44	0.9251	1.97	0.9756	2.50	0.9938	3.03	0.9988	3.56	0.9998
0.39	0.6517	0.92	0.8212	1.45	0.9265	1.98	0.9761	2.51	0.9940	3.04	0.9988	3.57	0.9998
0.40	0.6554	0.93	0.8238	1.46	0.9279	1.99	0.9767	2.52	0.9941	3.05	0.9989	3.58	0.9998
0.41	0.6591	0.94	0.8264	1.47	0.9292	2.00	0.9772	2.53	0.9943	3.06	0.9989	3.59	0.9998
0.42	0.6628	0.95	0.8289	1.48	0.9306	2.01	0.9778	2.54	0.9945	3.07	0.9989	3.60	0.9998
0.43	0.6664	0.96	0.8315	1.49	0.9319	2.02	0.9783	2.55	0.9946	3.08	0.9990	3.61	0.9998
0.44	0.6700	0.97	0.8340	1.50	0.9332	2.03	0.9788	2.56	0.9948	3.09	0.9990	3.62	0.9999
0.45	0.6736	0.98	0.8365	1.51	0.9345	2.04	0.9793	2.57	0.9949	3.10	0.9990	3.63	0.9999
0.46	0.6772	0.99	0.8389	1.52	0.9357	2.05	0.9798	2.58	0.9951	3.11	0.9991	3.64	0.9999
0.47	0.6808	1.00	0.8413	1.53	0.9370	2.06	0.9803	2.59	0.9952	3.12	0.9991	3.65	0.9999
0.48	0.6844	1.01	0.8438	1.54	0.9382	2.07	0.9808	2.60	0.9953	3.13	0.9991	3.66	0.9999
0.49	0.6879	1.02	0.8461	1.55	0.9394	2.08	0.9812	2.61	0.9955	3.14	0.9992	3.67	0.9999
0.50	0.6915	1.03	0.8485	1.56	0.9406	2.09	0.9817	2.62	0.9956	3.15	0.9992	3.68	0.9999
0.51	0.6950	1.04	0.8508	1.57	0.9418	2.10	0.9821	2.63	0.9957	3.16	0.9992	3.69	0.9999
0.52	0.6985	1.05	0.8531	1.58	0.9429	2.11	0.9826	2.64	0.9959	3.17	0.9992	3.70	0.9999