

# Standard Normal Distribution

Percentile Ranks (PR) and Two-Tailed Probabilities (p) for the Given Normal Deviates (z)

Z	PR	p	Z	PR	p	Z	PR	p	Z	PR	p
<-3.400	<.001	<.001	-2.560	.005	.010	-1.700	.045	.089	-0.840	.200	.401
-3.400	<.001	.001	-2.540	.006	.011	-1.680	.046	.093	-0.820	.206	.412
-3.380	<.001	.001	-2.520	.006	.012	-1.660	.048	.097	-0.800	.212	.424
-3.360	<.001	.001	-2.500	.006	.012	-1.640	.051	.101	-0.780	.218	.435
-3.340	<.001	.001	-2.480	.007	.013	-1.620	.053	.105	-0.760	.224	.447
-3.320	<.001	.001	-2.460	.007	.014	-1.600	.055	.110	-0.740	.230	.459
-3.300	<.001	.001	-2.440	.007	.015	-1.580	.057	.114	-0.720	.236	.472
-3.280	.001	.001	-2.420	.008	.016	-1.560	.059	.119	-0.700	.242	.484
-3.260	.001	.001	-2.400	.008	.016	-1.540	.062	.124	-0.680	.248	.497
-3.240	.001	.001	-2.380	.009	.017	-1.520	.064	.129	-0.660	.255	.509
-3.220	.001	.001	-2.360	.009	.018	-1.500	.067	.134	-0.640	.261	.522
-3.200	.001	.001	-2.340	.010	.019	-1.480	.069	.139	-0.620	.268	.535
-3.180	.001	.001	-2.320	.010	.020	-1.460	.072	.144	-0.600	.274	.549
-3.160	.001	.002	-2.300	.011	.021	-1.440	.075	.150	-0.580	.281	.562
-3.140	.001	.002	-2.280	.011	.023	-1.420	.078	.156	-0.560	.288	.575
-3.120	.001	.002	-2.260	.012	.024	-1.400	.081	.162	-0.540	.295	.589
-3.100	.001	.002	-2.240	.013	.025	-1.380	.084	.168	-0.520	.302	.603
-3.080	.001	.002	-2.220	.013	.026	-1.360	.087	.174	-0.500	.309	.617
-3.060	.001	.002	-2.200	.014	.028	-1.340	.090	.180	-0.480	.316	.631
-3.040	.001	.002	-2.180	.015	.029	-1.320	.093	.187	-0.460	.323	.646
-3.020	.001	.003	-2.160	.015	.031	-1.300	.097	.194	-0.440	.330	.660
-3.000	.001	.003	-2.140	.016	.032	-1.280	.100	.201	-0.420	.337	.674
-2.980	.001	.003	-2.120	.017	.034	-1.260	.104	.208	-0.400	.345	.689
-2.960	.002	.003	-2.100	.018	.036	-1.240	.107	.215	-0.380	.352	.704
-2.940	.002	.003	-2.080	.019	.038	-1.220	.111	.222	-0.360	.359	.719
-2.920	.002	.004	-2.060	.020	.039	-1.200	.115	.230	-0.340	.367	.734
-2.900	.002	.004	-2.040	.021	.041	-1.180	.119	.238	-0.320	.374	.749
-2.880	.002	.004	-2.020	.022	.043	-1.160	.123	.246	-0.300	.382	.764
-2.860	.002	.004	-2.000	.023	.046	-1.140	.127	.254	-0.280	.390	.779
-2.840	.002	.005	-1.980	.024	.048	-1.120	.131	.263	-0.260	.397	.795
-2.820	.002	.005	-1.960	.025	.050	-1.100	.136	.271	-0.240	.405	.810
-2.800	.003	.005	-1.940	.026	.052	-1.080	.140	.280	-0.220	.413	.826
-2.780	.003	.005	-1.920	.027	.055	-1.060	.145	.289	-0.200	.421	.841
-2.760	.003	.006	-1.900	.029	.057	-1.040	.149	.298	-0.180	.429	.857
-2.740	.003	.006	-1.880	.030	.060	-1.020	.154	.308	-0.160	.436	.873
-2.720	.003	.007	-1.860	.031	.063	-1.000	.159	.317	-0.140	.444	.889
-2.700	.003	.007	-1.840	.033	.066	-0.980	.164	.327	-0.120	.452	.904
-2.680	.004	.007	-1.820	.034	.069	-0.960	.169	.337	-0.100	.460	.920
-2.660	.004	.008	-1.800	.036	.072	-0.940	.174	.347	-0.080	.468	.936
-2.640	.004	.008	-1.780	.038	.075	-0.920	.179	.358	-0.060	.476	.952
-2.620	.004	.009	-1.760	.039	.078	-0.900	.184	.368	-0.040	.484	.968
-2.600	.005	.009	-1.740	.041	.082	-0.880	.189	.379	-0.020	.492	.984
-2.580	.005	.010	-1.720	.043	.085	-0.860	.195	.390	0.000	.500	1.000

# Percentile Ranks (PR) and Two-Tailed Probabilities (p) for the Given Normal Deviates (z)

Z	PR	p	Z	PR	p	Z	PR	p	Z	PR	p
0.000	.500	1.000	0.860	.805	.390	1.720	.957	.085	2.580	.995	.010
0.020	.508	.984	0.880	.811	.379	1.740	.959	.082	2.600	.995	.009
0.040	.516	.968	0.900	.816	.368	1.760	.961	.078	2.620	.996	.009
0.060	.524	.952	0.920	.821	.358	1.780	.962	.075	2.640	.996	.008
0.080	.532	.936	0.940	.826	.347	1.800	.964	.072	2.660	.996	.008
0.100	.540	.920	0.960	.831	.337	1.820	.966	.069	2.680	.996	.007
0.120	.548	.904	0.980	.836	.327	1.840	.967	.066	2.700	.997	.007
0.140	.556	.889	1.000	.841	.317	1.860	.969	.063	2.720	.997	.007
0.160	.564	.873	1.020	.846	.308	1.880	.970	.060	2.740	.997	.006
0.180	.571	.857	1.040	.851	.298	1.900	.971	.057	2.760	.997	.006
0.200	.579	.841	1.060	.855	.289	1.920	.973	.055	2.780	.997	.005
0.220	.587	.826	1.080	.860	.280	1.940	.974	.052	2.800	.997	.005
0.240	.595	.810	1.100	.864	.271	1.960	.975	.050	2.820	.998	.005
0.260	.603	.795	1.120	.869	.263	1.980	.976	.048	2.840	.998	.005
0.280	.610	.779	1.140	.873	.254	2.000	.977	.046	2.860	.998	.004
0.300	.618	.764	1.160	.877	.246	2.020	.978	.043	2.880	.998	.004
0.320	.626	.749	1.180	.881	.238	2.040	.979	.041	2.900	.998	.004
0.340	.633	.734	1.200	.885	.230	2.060	.980	.039	2.920	.998	.004
0.360	.641	.719	1.220	.889	.222	2.080	.981	.038	2.940	.998	.003
0.380	.648	.704	1.240	.893	.215	2.100	.982	.036	2.960	.998	.003
0.400	.655	.689	1.260	.896	.208	2.120	.983	.034	2.980	.999	.003
0.420	.663	.674	1.280	.900	.201	2.140	.984	.032	3.000	.999	.003
0.440	.670	.660	1.300	.903	.194	2.160	.985	.031	3.020	.999	.003
0.460	.677	.646	1.320	.907	.187	2.180	.985	.029	3.040	.999	.002
0.480	.684	.631	1.340	.910	.180	2.200	.986	.028	3.060	.999	.002
0.500	.691	.617	1.360	.913	.174	2.220	.987	.026	3.080	.999	.002
0.520	.698	.603	1.380	.916	.168	2.240	.987	.025	3.100	.999	.002
0.540	.705	.589	1.400	.919	.162	2.260	.988	.024	3.120	.999	.002
0.560	.712	.575	1.420	.922	.156	2.280	.989	.023	3.140	.999	.002
0.580	.719	.562	1.440	.925	.150	2.300	.989	.021	3.160	.999	.002
0.600	.726	.549	1.460	.928	.144	2.320	.990	.020	3.180	.999	.001
0.620	.732	.535	1.480	.931	.139	2.340	.990	.019	3.200	.999	.001
0.640	.739	.522	1.500	.933	.134	2.360	.991	.018	3.220	.999	.001
0.660	.745	.509	1.520	.936	.129	2.380	.991	.017	3.240	.999	.001
0.680	.752	.497	1.540	.938	.124	2.400	.992	.016	3.260	.999	.001
0.700	.758	.484	1.560	.941	.119	2.420	.992	.016	3.280	.999	.001
0.720	.764	.472	1.580	.943	.114	2.440	.993	.015	3.300	>.999	.001
0.740	.770	.459	1.600	.945	.110	2.460	.993	.014	3.320	>.999	.001
0.760	.776	.447	1.620	.947	.105	2.480	.993	.013	3.340	>.999	.001
0.780	.782	.435	1.640	.949	.101	2.500	.994	.012	3.360	>.999	.001
0.800	.788	.424	1.660	.952	.097	2.520	.994	.012	3.380	>.999	.001
0.820	.794	.412	1.680	.954	.093	2.540	.994	.011	3.400	>.999	.001
0.840	.800	.401	1.700	.955	.089	2.560	.995	.010	> 3.400	>.999	<.001