

15.3: Appendix C- The Z-Distribution Table

The first column shows the positive version of each z -scores. The remaining columns report proportions in decimal form. The second column shows the proportion of scores from the z -score past the mean and to its furthest tail in the normal curve. The third column shows the proportion of scores from the z -score to its nearest tail of the normal curve. The fourth column shows the proportion of scores between the z -score and the mean (center) of the normal curve. To translate proportions to percents, multiply the proportion by 100.

Recommendation: It can be easiest to identify which column(s) you need by using the sketch, shade, and solve method outlined in Chapter 5.

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
0.00	0.5000	0.5000	0.0000
0.01	0.5040	0.4960	0.0040
0.02	0.5080	0.4920	0.0080
0.03	0.5120	0.4880	0.0120
0.04	0.5160	0.4840	0.0160
0.05	0.5199	0.4801	0.0199
0.06	0.5239	0.4761	0.0239
0.07	0.5279	0.4721	0.0279
0.08	0.5319	0.4681	0.0319
0.09	0.5359	0.4641	0.0359
0.10	0.5398	0.4602	0.0398
0.11	0.5438	0.4562	0.0438
0.12	0.5478	0.4522	0.0478
0.13	0.5517	0.4483	0.0517
0.14	0.5557	0.4443	0.0557
0.15	0.5596	0.4404	0.0596
0.16	0.5636	0.4364	0.0636
0.17	0.5675	0.4325	0.0675
0.18	0.5714	0.4286	0.0714
0.19	0.5753	0.4247	0.0753
0.20	0.5793	0.4207	0.0793
0.21	0.5832	0.4168	0.0832
0.22	0.5871	0.4129	0.0871
0.23	0.5910	0.4090	0.0910
0.24	0.5948	0.4052	0.0948
0.25	0.5987	0.4013	0.0987
0.26	0.6026	0.3974	0.1026

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
0.27	0.6064	0.3936	0.1064
0.28	0.6103	0.3897	0.1103
0.29	0.6141	0.3859	0.1141
0.30	0.6179	0.3821	0.1179
0.31	0.6217	0.3783	0.1217
0.32	0.6255	0.3745	0.1255
0.33	0.6293	0.3707	0.1293
0.34	0.6331	0.3669	0.1331
0.35	0.6368	0.3632	0.1368
0.36	0.6406	0.3594	0.1406
0.37	0.6443	0.3557	0.1443
0.38	0.6480	0.3520	0.1480
0.39	0.6517	0.3483	0.1517
0.40	0.6554	0.3446	0.1554
0.41	0.6591	0.3409	0.1591
0.42	0.6628	0.3372	0.1628
0.43	0.6664	0.3336	0.1664
0.44	0.6700	0.3300	0.1700
0.45	0.6736	0.3264	0.1736
0.46	0.6772	0.3228	0.1772
0.47	0.6808	0.3192	0.1808
0.48	0.6844	0.3156	0.1844
0.49	0.6879	0.3121	0.1879
0.50	0.6915	0.3085	0.1915
0.51	0.6950	0.3050	0.1950
0.52	0.6985	0.3015	0.1985
0.53	0.7019	0.2981	0.2019
0.54	0.7054	0.2946	0.2054
0.55	0.7088	0.2912	0.2088
0.56	0.7123	0.2877	0.2123
0.57	0.7157	0.2843	0.2157
0.58	0.7190	0.2810	0.2190
0.59	0.7224	0.2776	0.2224
0.60	0.7257	0.2743	0.2257

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
0.61	0.7291	0.2709	0.2291
0.62	0.7324	0.2676	0.2324
0.63	0.7357	0.2643	0.2357
0.64	0.7389	0.2611	0.2389
0.65	0.7422	0.2578	0.2422
0.66	0.7454	0.2546	0.2454
0.67	0.7486	0.2514	0.2486
0.68	0.7517	0.2483	0.2517
0.69	0.7549	0.2451	0.2549
0.70	0.7580	0.2420	0.2580
0.71	0.7611	0.2389	0.2611
0.72	0.7642	0.2358	0.2642
0.73	0.7673	0.2327	0.2673
0.74	0.7704	0.2296	0.2704
0.75	0.7734	0.2266	0.2734
0.76	0.7764	0.2236	0.2764
0.77	0.7794	0.2206	0.2794
0.78	0.7823	0.2177	0.2823
0.79	0.7852	0.2148	0.2852
0.80	0.7881	0.2119	0.2881
0.81	0.7910	0.2090	0.2910
0.82	0.7939	0.2061	0.2939
0.83	0.7967	0.2033	0.2967
0.84	0.7995	0.2005	0.2995
0.85	0.8023	0.1977	0.3023
0.86	0.8051	0.1949	0.3051
0.87	0.8078	0.1922	0.3078
0.88	0.8106	0.1894	0.3106
0.89	0.8133	0.1867	0.3133
0.90	0.8159	0.1841	0.3159
0.91	0.8186	0.1814	0.3186
0.92	0.8212	0.1788	0.3212
0.93	0.8238	0.1762	0.3238
0.94	0.8264	0.1736	0.3264

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
0.95	0.8289	0.1711	0.3289
0.96	0.8315	0.1685	0.3315
0.97	0.8340	0.1660	0.3340
0.98	0.8365	0.1635	0.3365
0.99	0.8389	0.1611	0.3389
1.00	0.8413	0.1587	0.3413
1.01	0.8438	0.1562	0.3438
1.02	0.8461	0.1539	0.3461
1.03	0.8485	0.1515	0.3485
1.04	0.8508	0.1492	0.3508
1.05	0.8531	0.1469	0.3531
1.06	0.8554	0.1446	0.3554
1.07	0.8577	0.1423	0.3577
1.08	0.8599	0.1401	0.3599
1.09	0.8621	0.1379	0.3621
1.10	0.8643	0.1357	0.3643
1.11	0.8665	0.1335	0.3665
1.12	0.8686	0.1314	0.3686
1.13	0.8708	0.1292	0.3708
1.14	0.8729	0.1271	0.3729
1.15	0.8749	0.1251	0.3749
1.16	0.8770	0.1230	0.3770
1.17	0.8790	0.1210	0.3790
1.18	0.8810	0.1190	0.3810
1.19	0.8830	0.1170	0.3830
1.20	0.8849	0.1151	0.3849
1.21	0.8869	0.1131	0.3869
1.22	0.8888	0.1112	0.3888
1.23	0.8907	0.1093	0.3907
1.24	0.8925	0.1075	0.3925
1.25	0.8944	0.1056	0.3944
1.26	0.8962	0.1038	0.3962
1.27	0.8980	0.1020	0.3980
1.28	0.8997	0.1003	0.3997

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
1.29	0.9015	0.0985	0.4015
1.30	0.9032	0.0968	0.4032
1.31	0.9049	0.0951	0.4049
1.32	0.9066	0.0934	0.4066
1.33	0.9082	0.0918	0.4082
1.34	0.9099	0.0901	0.4099
1.35	0.9115	0.0885	0.4115
1.36	0.9131	0.0869	0.4131
1.37	0.9147	0.0853	0.4147
1.38	0.9162	0.0838	0.4162
1.39	0.9177	0.0823	0.4177
1.40	0.9192	0.0808	0.4192
1.41	0.9207	0.0793	0.4207
1.42	0.9222	0.0778	0.4222
1.43	0.9236	0.0764	0.4236
1.44	0.9251	0.0749	0.4251
1.45	0.9265	0.0735	0.4265
1.46	0.9279	0.0721	0.4279
1.47	0.9292	0.0708	0.4292
1.48	0.9306	0.0694	0.4306
1.49	0.9319	0.0681	0.4319
1.50	0.9332	0.0668	0.4332
1.51	0.9345	0.0655	0.4345
1.52	0.9357	0.0643	0.4357
1.53	0.9370	0.0630	0.4370
1.54	0.9382	0.0618	0.4382
1.55	0.9394	0.0606	0.4394
1.56	0.9406	0.0594	0.4406
1.57	0.9418	0.0582	0.4418
1.58	0.9429	0.0571	0.4429
1.59	0.9441	0.0559	0.4441
1.60	0.9452	0.0548	0.4452
1.61	0.9463	0.0537	0.4463
1.62	0.9474	0.0526	0.4474

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
1.63	0.9484	0.0516	0.4484
1.64	0.9495	0.0505	0.4495
1.65	0.9505	0.0495	0.4505
1.66	0.9515	0.0485	0.4515
1.67	0.9525	0.0475	0.4525
1.68	0.9535	0.0465	0.4535
1.69	0.9545	0.0455	0.4545
1.70	0.9554	0.0446	0.4554
1.71	0.9564	0.0436	0.4564
1.72	0.9573	0.0427	0.4573
1.73	0.9582	0.0418	0.4582
1.74	0.9591	0.0409	0.4591
1.75	0.9599	0.0401	0.4599
1.76	0.9608	0.0392	0.4608
1.77	0.9616	0.0384	0.4616
1.78	0.9625	0.0375	0.4625
1.79	0.9633	0.0367	0.4633
1.80	0.9641	0.0359	0.4641
1.81	0.9649	0.0351	0.4649
1.82	0.9656	0.0344	0.4656
1.83	0.9664	0.0336	0.4664
1.84	0.9671	0.0329	0.4671
1.85	0.9678	0.0322	0.4678
1.86	0.9686	0.0314	0.4686
1.87	0.9693	0.0307	0.4693
1.88	0.9699	0.0301	0.4699
1.89	0.9706	0.0294	0.4706
1.90	0.9713	0.0287	0.4713
1.91	0.9719	0.0281	0.4719
1.92	0.9726	0.0274	0.4726
1.93	0.9732	0.0268	0.4732
1.94	0.9738	0.0262	0.4738
1.95	0.9744	0.0256	0.4744
1.96	0.9750	0.0250	0.4750

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
1.97	0.9756	0.0244	0.4756
1.98	0.9761	0.0239	0.4761
1.99	0.9767	0.0233	0.4767
2.00	0.9772	0.0228	0.4772
2.01	0.9778	0.0222	0.4778
2.02	0.9783	0.0217	0.4783
2.03	0.9788	0.0212	0.4788
2.04	0.9793	0.0207	0.4793
2.05	0.9798	0.0202	0.4798
2.06	0.9803	0.0197	0.4803
2.07	0.9808	0.0192	0.4808
2.08	0.9812	0.0188	0.4812
2.09	0.9817	0.0183	0.4817
2.10	0.9821	0.0179	0.4821
2.11	0.9826	0.0174	0.4826
2.12	0.9830	0.0170	0.4830
2.13	0.9834	0.0166	0.4834
2.14	0.9838	0.0162	0.4838
2.15	0.9842	0.0158	0.4842
2.16	0.9846	0.0154	0.4846
2.17	0.9850	0.0150	0.4850
2.18	0.9854	0.0146	0.4854
2.19	0.9857	0.0143	0.4857
2.20	0.9861	0.0139	0.4861
2.21	0.9864	0.0136	0.4864
2.22	0.9868	0.0132	0.4868
2.23	0.9871	0.0129	0.4871
2.24	0.9875	0.0125	0.4875
2.25	0.9878	0.0122	0.4878
2.26	0.9881	0.0119	0.4881
2.27	0.9884	0.0116	0.4884
2.28	0.9887	0.0113	0.4887
2.29	0.9890	0.0110	0.4890
2.30	0.9893	0.0107	0.4893

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
2.31	0.9896	0.0104	0.4896
2.32	0.9898	0.0102	0.4898
2.33	0.9901	0.0099	0.4901
2.34	0.9904	0.0096	0.4904
2.35	0.9906	0.0094	0.4906
2.36	0.9909	0.0091	0.4909
2.37	0.9911	0.0089	0.4911
2.38	0.9913	0.0087	0.4913
2.39	0.9916	0.0084	0.4916
2.40	0.9918	0.0082	0.4918
2.41	0.9920	0.0080	0.4920
2.42	0.9922	0.0078	0.4922
2.43	0.9925	0.0075	0.4925
2.44	0.9927	0.0073	0.4927
2.45	0.9929	0.0071	0.4929
2.46	0.9931	0.0069	0.4931
2.47	0.9932	0.0068	0.4932
2.48	0.9934	0.0066	0.4934
2.49	0.9936	0.0064	0.4936
2.50	0.9938	0.0062	0.4938
2.51	0.9940	0.0060	0.4940
2.52	0.9941	0.0059	0.4941
2.53	0.9943	0.0057	0.4943
2.54	0.9945	0.0055	0.4945
2.55	0.9946	0.0054	0.4946
2.56	0.9948	0.0052	0.4948
2.57	0.9949	0.0051	0.4949
2.58	0.9951	0.0049	0.4951
2.59	0.9952	0.0048	0.4952
2.60	0.9953	0.0047	0.4953
2.61	0.9955	0.0045	0.4955
2.62	0.9956	0.0044	0.4956
2.63	0.9957	0.0043	0.4957
2.64	0.9959	0.0041	0.4959

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
2.65	0.9960	0.0040	0.4960
2.66	0.9961	0.0039	0.4961
2.67	0.9962	0.0038	0.4962
2.68	0.9963	0.0037	0.4963
2.69	0.9964	0.0036	0.4964
2.70	0.9965	0.0035	0.4965
2.71	0.9966	0.0034	0.4966
2.72	0.9967	0.0033	0.4967
2.73	0.9968	0.0032	0.4968
2.74	0.9969	0.0031	0.4969
2.75	0.9970	0.0030	0.4970
2.76	0.9971	0.0029	0.4971
2.77	0.9972	0.0028	0.4972
2.78	0.9973	0.0027	0.4973
2.79	0.9974	0.0026	0.4974
2.80	0.9974	0.0026	0.4974
2.81	0.9975	0.0025	0.4975
2.82	0.9976	0.0024	0.4976
2.83	0.9977	0.0023	0.4977
2.84	0.9977	0.0023	0.4977
2.85	0.9978	0.0022	0.4978
2.86	0.9979	0.0021	0.4979
2.87	0.9979	0.0021	0.4979
2.88	0.9980	0.0020	0.4980
2.89	0.9981	0.0019	0.4981
2.90	0.9981	0.0019	0.4981
2.91	0.9982	0.0018	0.4982
2.92	0.9982	0.0018	0.4982
2.93	0.9983	0.0017	0.4983
2.94	0.9984	0.0016	0.4984
2.95	0.9984	0.0016	0.4984
2.96	0.9985	0.0015	0.4985
2.97	0.9985	0.0015	0.4985
2.98	0.9986	0.0014	0.4986

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
2.99	0.9986	0.0014	0.4986
3.00	0.9987	0.0013	0.4987
3.01	0.9987	0.0013	0.4987
3.02	0.9987	0.0013	0.4987
3.03	0.9988	0.0012	0.4988
3.04	0.9988	0.0012	0.4988
3.05	0.9989	0.0011	0.4989
3.06	0.9989	0.0011	0.4989
3.07	0.9989	0.0011	0.4989
3.08	0.9990	0.0010	0.4990
3.09	0.9990	0.0010	0.4990
3.10	0.9990	0.0010	0.4990
3.11	0.9991	0.0009	0.4991
3.12	0.9991	0.0009	0.4991
3.13	0.9991	0.0009	0.4991
3.14	0.9992	0.0008	0.4992
3.15	0.9992	0.0008	0.4992
3.16	0.9992	0.0008	0.4992
3.17	0.9992	0.0008	0.4992
3.18	0.9993	0.0007	0.4993
3.19	0.9993	0.0007	0.4993
3.20	0.9993	0.0007	0.4993
3.21	0.9993	0.0007	0.4993
3.22	0.9994	0.0006	0.4994
3.23	0.9994	0.0006	0.4994
3.24	0.9994	0.0006	0.4994
3.25	0.9994	0.0006	0.4994
3.26	0.9994	0.0006	0.4994
3.27	0.9995	0.0005	0.4995
3.28	0.9995	0.0005	0.4995
3.29	0.9995	0.0005	0.4995
3.30	0.9995	0.0005	0.4995
3.31	0.9995	0.0005	0.4995
3.32	0.9995	0.0005	0.4995

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
3.33	0.9996	0.0004	0.4996
3.34	0.9996	0.0004	0.4996
3.35	0.9996	0.0004	0.4996
3.36	0.9996	0.0004	0.4996
3.37	0.9996	0.0004	0.4996
3.38	0.9996	0.0004	0.4996
3.39	0.9997	0.0003	0.4997
3.40	0.9997	0.0003	0.4997
3.41	0.9997	0.0003	0.4997
3.42	0.9997	0.0003	0.4997
3.43	0.9997	0.0003	0.4997
3.44	0.9997	0.0003	0.4997
3.45	0.9997	0.0003	0.4997
3.46	0.9997	0.0003	0.4997
3.47	0.9997	0.0003	0.4997
3.48	0.9997	0.0003	0.4997
3.49	0.9998	0.0002	0.4998
3.50	0.9998	0.0002	0.4998
3.51	0.9998	0.0002	0.4998
3.52	0.9998	0.0002	0.4998
3.53	0.9998	0.0002	0.4998
3.54	0.9998	0.0002	0.4998
3.55	0.9998	0.0002	0.4998
3.56	0.9998	0.0002	0.4998
3.57	0.9998	0.0002	0.4998
3.58	0.9998	0.0002	0.4998
3.59	0.9998	0.0002	0.4998
3.60	0.9998	0.0002	0.4998
3.61	0.9998	0.0002	0.4998
3.62	0.9999	0.0001	0.4999
3.63	0.9999	0.0001	0.4999
3.64	0.9999	0.0001	0.4999
3.65	0.9999	0.0001	0.4999
3.66	0.9999	0.0001	0.4999

Z-Score	Proportion in the Body	Proportion in the Tail	Proportion between the Mean and the Z
3.67	0.9999	0.0001	0.4999
3.68	0.9999	0.0001	0.4999
3.69	0.9999	0.0001	0.4999
3.70	0.9999	0.0001	0.4999
3.71	0.9999	0.0001	0.4999
3.72	0.9999	0.0001	0.4999
3.73	0.9999	0.0001	0.4999
3.74	0.9999	0.0001	0.4999
3.75	0.9999	0.0001	0.4999
3.76	0.9999	0.0001	0.4999
3.77	0.9999	0.0001	0.4999
3.78	0.9999	0.0001	0.4999
3.79	0.9999	0.0001	0.4999
3.80	0.9999	0.0001	0.4999
3.81	0.9999	0.0001	0.4999
3.82	0.9999	0.0001	0.4999
3.83	0.9999	0.0001	0.4999
3.84	0.9999	0.0001	0.4999
3.85	0.9999	0.0001	0.4999
3.86	0.9999	0.0001	0.4999
3.87	0.9999	0.0001	0.4999
3.88	0.9999	0.0001	0.4999
3.89	0.9999	0.0001	0.4999
3.90	1.0000	0.0000	0.5000
3.91	1.0000	0.0000	0.5000
3.92	1.0000	0.0000	0.5000
3.93	1.0000	0.0000	0.5000
3.94	1.0000	0.0000	0.5000
3.95	1.0000	0.0000	0.5000
3.96	1.0000	0.0000	0.5000
3.97	1.0000	0.0000	0.5000
3.98	1.0000	0.0000	0.5000
3.99	1.0000	0.0000	0.5000
4.00	1.0000	0.0000	0.5000

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