

# APPENDIX


## TABLES

**TABLE 1** Normal Curve Areas: Percentage of the Normal Curve Between the Mean and the Z Scores Shown and Percentage of Scores in the Tail for the Z Scores Shown



Z	% Mean to Z	% in Tail	Z	% Mean to Z	% in Tail
.00	0.00	50.00	.27	10.64	39.36
.01	0.40	49.60	.28	11.03	38.97
.02	0.80	49.20	.29	11.41	38.59
.03	1.20	48.80	.30	11.79	38.21
.04	1.60	48.40	.31	12.17	37.83
.05	1.99	48.01	.32	12.55	37.45
.06	2.39	47.61	.33	12.93	37.07
.07	2.79	47.21	.34	13.31	36.69
.08	3.19	46.81	.35	13.68	36.32
.09	3.59	46.41	.36	14.06	35.94
.10	3.98	46.02	.37	14.43	35.57
.11	4.38	45.62	.38	14.80	35.20
.12	4.78	45.22	.39	15.17	34.83
.13	5.17	44.83	.40	15.54	34.46
.14	5.57	44.43	.41	15.91	34.09
.15	5.96	44.04	.42	16.28	33.72
.16	6.36	43.64	.43	16.64	33.36
.17	6.75	43.25	.44	17.00	33.00
.18	7.14	42.86	.45	17.36	32.64
.19	7.53	42.47	.46	17.72	32.28
.20	7.93	42.07	.47	18.08	31.92
.21	8.32	41.68	.48	18.44	31.56
.22	8.71	41.29	.49	18.79	31.21
.23	9.10	40.90	.50	19.15	30.85
.24	9.48	40.52	.51	19.50	30.50
.25	9.87	40.13	.52	19.85	30.15
.26	10.26	39.74	.53	20.19	29.81

TABLE 1 (cont.)



The figure shows four normal distribution curves. The first two curves are on the left, and the last two are on the right. Each curve has a vertical line from the peak to the x-axis labeled 'mean Z'. The area between the mean and a point Z to the right is shaded, and the area to the right of Z is also shaded, representing the tail area.


Z	% Mean to Z	% in Tail	Z	% Mean to Z	% in Tail
.54	20.54	29.46	.97	33.40	16.60
.55	20.88	29.12	.98	33.65	16.35
.56	21.23	28.77	.99	33.89	16.11
.57	21.57	28.43	1.00	34.13	15.87
.58	21.90	28.10	1.01	34.38	15.62
.59	22.24	27.76	1.02	34.61	15.39
.60	22.57	27.43	1.03	34.85	15.15
.61	22.91	27.09	1.04	35.08	14.92
.62	23.24	26.76	1.05	35.31	14.69
.63	23.57	26.43	1.06	35.54	14.46
.64	23.89	26.11	1.07	35.77	14.23
.65	24.22	25.78	1.08	35.99	14.01
.66	24.54	25.46	1.09	36.21	13.79
.67	24.86	25.14	1.10	36.43	13.57
.68	25.17	24.83	1.11	36.65	13.35
.69	25.49	24.51	1.12	36.86	13.14
.70	25.80	24.20	1.13	37.08	12.92
.71	26.11	23.89	1.14	37.29	12.71
.72	26.42	23.58	1.15	37.49	12.51
.73	26.73	23.27	1.16	37.70	12.30
.74	27.04	22.96	1.17	37.90	12.10
.75	27.34	22.66	1.18	38.10	11.90
.76	27.64	22.36	1.19	38.30	11.70
.77	27.94	22.06	1.20	38.49	11.51
.78	28.23	21.77	1.21	38.69	11.31
.79	28.52	21.48	1.22	38.88	11.12
.80	28.81	21.19	1.23	39.07	10.93
.81	29.10	20.90	1.24	39.25	10.75
.82	29.39	20.61	1.25	39.44	10.56
.83	29.67	20.33	1.26	39.62	10.38
.84	29.95	20.05	1.27	39.80	10.20
.85	30.23	19.77	1.28	39.97	10.03
.86	30.51	19.49	1.29	40.15	9.85
.87	30.78	19.22	1.30	40.32	9.68
.88	31.06	18.94	1.31	40.49	9.51
.89	31.33	18.67	1.32	40.66	9.34
.90	31.59	18.41	1.33	40.82	9.18
.91	31.86	18.14	1.34	40.99	9.01
.92	32.12	17.88	1.35	41.15	8.85
.93	32.38	17.62	1.36	41.31	8.69
.94	32.64	17.36	1.37	41.47	8.53
.95	32.89	17.11	1.38	41.62	8.38
.96	33.15	16.85	1.39	41.77	8.23

**TABLE 1 (cont.)**



Z	% Mean to Z	% in Tail	Z	% Mean to Z	% in Tail
1.40	41.92	8.08	1.83	46.64	3.36
1.41	42.07	7.93	1.84	46.71	3.29
1.42	42.22	7.78	1.85	46.78	3.22
1.43	42.36	7.64	1.86	46.86	3.14
1.44	42.51	7.49	1.87	46.93	3.07
1.45	42.65	7.35	1.88	46.99	3.01
1.46	42.79	7.21	1.89	47.06	2.94
1.47	42.92	7.08	1.90	47.13	2.87
1.48	43.06	6.94	1.91	47.19	2.81
1.49	43.19	6.81	1.92	47.26	2.74
1.50	43.32	6.68	1.93	47.32	2.68
1.51	43.45	6.55	1.94	47.38	2.62
1.52	43.57	6.43	1.95	47.44	2.56
1.53	43.70	6.30	1.96	47.50	2.50
1.54	43.82	6.18	1.97	47.56	2.44
1.55	43.94	6.06	1.98	47.61	2.39
1.56	44.06	5.94	1.99	47.67	2.33
1.57	44.18	5.82	2.00	47.72	2.28
1.58	44.29	5.71	2.01	47.78	2.22
1.59	44.41	5.59	2.02	47.83	2.17
1.60	44.52	5.48	2.03	47.88	2.12
1.61	44.63	5.37	2.04	47.93	2.07
1.62	44.74	5.26	2.05	47.98	2.02
1.63	44.84	5.16	2.06	48.03	1.97
1.64	44.95	5.05	2.07	48.08	1.92
1.65	45.05	4.95	2.08	48.12	1.88
1.66	45.15	4.85	2.09	48.17	1.83
1.67	45.25	4.75	2.10	48.21	1.79
1.68	45.35	4.65	2.11	48.26	1.74
1.69	45.45	4.55	2.12	48.30	1.70
1.70	45.54	4.46	2.13	48.34	1.66
1.71	45.64	4.36	2.14	48.38	1.62
1.72	45.73	4.27	2.15	48.42	1.58
1.73	45.82	4.18	2.16	48.46	1.54
1.74	45.91	4.09	2.17	48.50	1.50
1.75	45.99	4.01	2.18	48.54	1.46
1.76	46.08	3.92	2.19	48.57	1.43
1.77	46.16	3.84	2.20	48.61	1.39
1.78	46.25	3.75	2.21	48.64	1.36
1.79	46.33	3.67	2.22	48.68	1.32
1.80	46.41	3.59	2.23	48.71	1.29
1.81	46.49	3.51	2.24	48.75	1.25
1.82	46.56	3.44	2.25	48.78	1.22

TABLE 1 (cont.)



The figure shows four normal distribution curves. The first two curves are for Z values between 2.26 and 2.64, and the last two are for Z values between 2.65 and 4.50. Each curve has a vertical line at the mean (labeled 'mean Z') and a shaded area representing the percentage of the distribution between the mean and Z, and the percentage in the tail to the right of Z.

Z	% Mean to Z	% in Tail	Z	% Mean to Z	% in Tail
2.26	48.81	1.19	2.65	49.60	.40
2.27	48.84	1.16	2.66	49.61	.39
2.28	48.87	1.13	2.67	49.62	.38
2.29	48.90	1.10	2.68	49.63	.37
2.30	48.93	1.07	2.69	49.64	.36
2.31	48.96	1.04	2.70	49.65	.35
2.32	48.98	1.02	2.71	49.66	.34
2.33	49.01	.99	2.72	49.67	.33
2.34	49.04	.96	2.73	49.68	.32
2.35	49.06	.94	2.74	49.69	.31
2.36	49.09	.91	2.75	49.70	.30
2.37	49.11	.89	2.76	49.71	.29
2.38	49.13	.87	2.77	49.72	.28
2.39	49.16	.84	2.78	49.73	.27
2.40	49.18	.82	2.79	49.74	.26
2.41	49.20	.80	2.80	49.74	.26
2.42	49.22	.78	2.81	49.75	.25
2.43	49.25	.75	2.82	49.76	.24
2.44	49.27	.73	2.83	49.77	.23
2.45	49.29	.71	2.84	49.77	.23
2.46	49.31	.69	2.85	49.78	.22
2.47	49.32	.68	2.86	49.79	.21
2.48	49.34	.66	2.87	49.79	.21
2.49	49.36	.64	2.88	49.80	.20
2.50	49.38	.62	2.89	49.81	.19
2.51	49.40	.60	2.90	49.81	.19
2.52	49.41	.59	2.91	49.82	.18
2.53	49.43	.57	2.92	49.82	.18
2.54	49.45	.55	2.93	49.83	.17
2.55	49.46	.54	2.94	49.84	.16
2.56	49.48	.52	2.95	49.84	.16
2.57	49.49	.51	2.96	49.85	.15
2.58	49.51	.49	2.97	49.85	.15
2.59	49.52	.48	2.98	49.86	.14
2.60	49.53	.47	2.99	49.86	.14
2.61	49.55	.45	3.00	49.87	.13
2.62	49.56	.44	3.50	49.98	.02
2.63	49.57	.43	4.00	50.00	.00
2.64	49.59	.41	4.50	50.00	.00