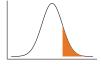
## PO91Q: Fundamentals in Quantitative Research Methods Statistical Tables

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## 1 | Normal-Distribution



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641
0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.0014
3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010
3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007	.0007
3.2 3.3	.0007 .0005	.0007 .0005	.0006 .0005	.0006 .0004	.0006 .0004	.0006 .0004	.0006 .0004	.0005 .0004	.0005 .0004	.0005 .0003
3.4	.0003	.0003	.0003	.0004	.0004	.0004	.0004	.0004	.0004	.0003
3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0002

Table 1: Right-Tail Probabilities under the Normal Distribution

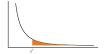


## 2 | t-Distribution

Confidence Level

	50%	60%	70%	80%	90%	95%	98%	99%	99.8%	99.9%	
	One-Tail Probability										
df	t <sub>0.25</sub>	t <sub>0.20</sub>	t <sub>0.15</sub>	t <sub>0.10</sub>	t <sub>0.05</sub>	t <sub>0.025</sub>	t <sub>0.01</sub>	t <sub>0.005</sub>	t <sub>0.001</sub>	t <sub>0.0005</sub>	
1	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	318.3	636.6	
2	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	22.33	31.60	
3 4	0.765 0.741	0.978 0.941	1.250 1.190	1.638 1.533	2.353 2.132	3.182 2.776	4.541 3.747	5.841 4.604	10.22 7.173	12.92 8.610	
5	0.741	0.920	1.156	1.476	2.132	2.776	3.747	4.032	5.893	6.869	
6	0.727	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959	
7	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408	
8	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041	
9	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781	
10	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587	
11	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437	
12	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318	
13	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221	
14 15	0.692 0.691	0.868 0.866	1.076 1.074	1.345 1.341	1.761 1.753	2.145 2.131	2.624 2.602	2.977	3.787 3.733	4.140 4.073	
16	0.691	0.865	1.074	1.337	1.746	2.131	2.583	2.947 2.921	3.686	4.075	
17	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965	
18	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922	
19	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.579	3.883	
20	0.687	0.860	1.064	1.325	1.725	2.086	2.528 2.518	2.845 2.831	3.552	3.850	
21	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.527	3.819	
22	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.505	3.792	
23 24	0.685 0.685	0.858 0.857	1.060 1.059	1.319 1.318	1.714 1.711	2.069 2.064	2.500 2.492	2.807 2.797	3.485 3.467	3.768 3.745	
25	0.684	0.856	1.059	1.316	1.711	2.060	2.492	2.787	3.450	3.725	
26	0.684	0.856	1.058 1.058	1.316 1.315	1.706	2.056	2.479	2.779	3.435	3.707	
27	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.421	3.690	
28	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.408	3.674	
29	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.396	3.659	
30	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.385	3.646	
40	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	3.307	3.551	
60	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	3.232	3.460	
80 100	0.678	0.846	1.043	1.292	1.664 1.660	1.990	2.374	2.639	3.195 3.174	3.416 3.390	
1000	0.677 0.675	0.845 0.842	1.042 1.037	1.290 1.282	1.646	1.984 1.962	2.364 2.330	2.626 2.581	3.174	3.390	
Z	0.674	0.842	1.037	1.282	1.645	1.960	2.336	2.576	3.090	3.291	
2	0.074	0.072	1.050	1.202	1.073	1.500	2.520	2.570	3.030	J. Z J I	

Table 2: Probabilities under the t-Distribution



Right-Tail Probability

	Right-Tall Probability										
df	0.995	0.99	0.975	0.95	0.9	0.1	0.05	0.025	0.01		
1	0.00	0.00	0.00	0.00	0.02	2.71	3.84	5.02	6.63		
2	0.01	0.02	0.05	0.10	0.21	4.61	5.99	7.38	9.21		
	0.07	0.11	0.22	0.35	0.58	6.25	7.81	9.35	11.34		
4	0.21	0.30	0.48	0.71	1.06	7.78	9.49	11.14	13.28		
5	0.41	0.55	0.83	1.15	1.61	9.24	11.07	12.83	15.09		
6	0.68	0.87	1.24	1.64	2.20	10.64	12.59	14.45	16.81		
7	0.99	1.24	1.69	2.17	2.83	12.02	14.07	16.01	18.48		
8	1.34	1.65	2.18	2.73	3.49	13.36	15.51	17.53	20.09		
9	1.73	2.09	2.70	3.33	4.17	14.68	16.92	19.02	21.67		
10	2.16	2.56	3.25	3.94	4.87	15.99	18.31	20.48	23.21		
11	2.60	3.05	3.82	4.57	5.58	17.28	19.68	21.92	24.72		
12	3.07	3.57	4.40	5.23	6.30	18.55	21.03	23.34	26.22		
13	3.57	4.11	5.01	5.89	7.04	19.81	22.36	24.74	27.69		
14	4.07	4.66	5.63	6.57	7.79	21.06	23.68	26.12	29.14		
15	4.60	5.23	6.26	7.26	8.55	22.31	25.00	27.49	30.58		
16	5.14	5.81	6.91	7.96	9.31	23.54	26.30	28.85	32.00		
17	5.70 6.26	6.41	7.56	8.67 9.39	10.09	24.77	27.59 28.87	30.19	33.41 34.81		
18	6.84	7.01 7.63	8.23 8.91		10.86 11.65	25.99 27.20		31.53 32.85			
19 20	7.43	7.63 8.26	9.59	10.12 10.85	12.44	27.20 28.41	30.14 31.41	34.17	36.19 37.57		
22	8.64	9.54	10.98	12.34	14.04	30.81	33.92	34.17 36.78	40.29		
24	9.89	10.86	12.40	13.85	15.66	33.20	36.42	39.36	40.29		
26	11.16	12.20	13.84	15.38	17.29	35.56	38.89	41.92	45.64		
28	12.46	13.56	15.31	16.93	18.94	37.92	41.34	44.46	48.28		
30	13.79	14.95	16.79	18.49	20.60	40.26	43.77	46.98	50.89		
40	20.71	22.16	24.43	26.51	29.05	51.81	55.76	59.34	63.69		
50	27.99	29.71	32.36	34.76	37.69	63.17	67.50	71.42	76.15		
60	35.53	37.48	40.48	43.19	46.46	74.40	79.08	83.30	88.38		
70	43.28	45.44	48.76	51.74	55.33	85.53	90.53	95.02	100.43		
80	51.17	53.54	57.15	60.39	64.28	96.58	101.88	106.63	112.33		
90	59.20	61.75	65.65	69.13	73.29	107.57	113.15	118.14	124.12		
100	67.33	70.06	74.22	77.93	82.36	118.50	124.34	129.56	135.81		
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Table 3: Probabilities under the  $\chi^2$ -Distribution