

# How to Use a Chi-Square Distribution Table to Find Statistical Significance

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January 1, 2026

## RECOMMENDED CITATION

stats writer (2026). *How to Use a Chi-Square Distribution Table to Find Statistical Significance*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=110338>

The Chi-square Distribution Table is a statistical tool used to determine the probability of a given chi-square statistic value occurring in a chi-square test of statistical significance. It is used in various hypothesis tests, such as the Pearson's chi-square test for goodness of fit and the chi-square test of independence. The table is used to find the exact probability of a given chi-square statistic value by referring to the table with the degrees of freedom and the probability value.

The chi-square distribution table below shows the critical values for different probability levels (P) and degrees of freedom (DF).

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df	0.1	0.05	0.025	0.01	0.005	0.001
1	2.706	3.841	5.024	6.635	7.879	10.828
2	1.626	3.000	3.841	5.991	6.385	9.210
3	1.213	2.366	3.000	5.015	5.541	8.534
4	0.984	1.924	2.366	4.292	4.779	7.779
5	0.854	1.626	1.924	3.841	4.351	7.231
6	0.784	1.486	1.626	3.455	3.975	6.851
7	0.729	1.372	1.486	3.145	3.645	6.521
8	0.684	1.286	1.372	2.897	3.357	6.256
9	0.646	1.219	1.286	2.700	3.143	6.025
10	0.613	1.163	1.219	2.558	2.978	5.833
11	0.584	1.117	1.163	2.445	2.847	5.678
12	0.559	1.079	1.117	2.350	2.743	5.541
13	0.537	1.046	1.079	2.277	2.660	5.419
14	0.518	1.017	1.046	2.219	2.593	5.310
15	0.501	0.990	1.017	2.171	2.538	5.214
16	0.486	0.966	0.990	2.131	2.492	5.130
17	0.473	0.944	0.966	2.097	2.454	5.056
18	0.461	0.924	0.944	2.067	2.422	4.990
19	0.450	0.905	0.924	2.040	2.394	4.931
20	0.440	0.888	0.905	2.015	2.370	4.878
21	0.431	0.873	0.888	1.992	2.349	4.830
22	0.423	0.859	0.873	1.971	2.330	4.786
23	0.415	0.846	0.859	1.952	2.313	4.746
24	0.408	0.834	0.846	1.935	2.298	4.708
25	0.401	0.823	0.834	1.920	2.284	4.673
26	0.395	0.812	0.823	1.906	2.271	4.640
27	0.389	0.802	0.812	1.893	2.259	4.608
28	0.384	0.793	0.802	1.881	2.248	4.578
29	0.379	0.784	0.793	1.870	2.238	4.549
30	0.375	0.776	0.784	1.860	2.229	4.521
31	0.371	0.768	0.776	1.851	2.220	4.494
32	0.367	0.761	0.768	1.842	2.212	4.468
33	0.364	0.754	0.761	1.834	2.204	4.443
34	0.361	0.747	0.754	1.826	2.197	4.419
35	0.358	0.741	0.747	1.819	2.190	4.395
36	0.355	0.735	0.741	1.812	2.183	4.372
37	0.352	0.729	0.735	1.805	2.177	4.350
38	0.350	0.724	0.729	1.800	2.171	4.328
39	0.347	0.718	0.724	1.794	2.165	4.307
40	0.345	0.713	0.718	1.789	2.160	4.286
41	0.343	0.708	0.713	1.784	2.155	4.266
42	0.341	0.703	0.708	1.779	2.150	4.246
43	0.339	0.698	0.703	1.774	2.145	4.227
44	0.337	0.693	0.698	1.770	2.140	4.208
45	0.335	0.688	0.693	1.765	2.135	4.189
46	0.333	0.684	0.688	1.761	2.130	4.170
47	0.331	0.680	0.684	1.757	2.125	4.152
48	0.329	0.676	0.680	1.753	2.120	4.134
49	0.327	0.672	0.676	1.749	2.115	4.116
50	0.325	0.668	0.672	1.745	2.110	4.098
51	0.323	0.664	0.668	1.741	2.105	4.080
52	0.321	0.660	0.664	1.737	2.100	4.062
53	0.319	0.656	0.660	1.733	2.095	4.044
54	0.317	0.652	0.656	1.729	2.090	4.026
55	0.315	0.648	0.652	1.725	2.085	4.008
56	0.313	0.644	0.648	1.721	2.080	4.000
57	0.311	0.640	0.644	1.717	2.075	3.982
58	0.309	0.636	0.640	1.713	2.070	3.964
59	0.307	0.632	0.636	1.709	2.065	3.946
60	0.305	0.628	0.632	1.705	2.060	3.928
61	0.303	0.624	0.628	1.701	2.055	3.910
62	0.301	0.620	0.624	1.697	2.050	3.892
63	0.299	0.616	0.620	1.693	2.045	3.874
64	0.297	0.612	0.616	1.689	2.040	3.856
65	0.295	0.608	0.612	1.685	2.035	3.838
66	0.293	0.604	0.608	1.681	2.030	3.820
67	0.291	0.600	0.604	1.677	2.025	3.802
68	0.289	0.596	0.600	1.673	2.020	3.784
69	0.287	0.592	0.596	1.669	2.015	3.766
70	0.285	0.588	0.592	1.665	2.010	3.748
71	0.283	0.584	0.588	1.661	2.005	3.730
72	0.281	0.580	0.584	1.657	2.000	3.712
73	0.279	0.576	0.580	1.653	1.995	3.694
74	0.277	0.572	0.576	1.649	1.990	3.676
75	0.275	0.568	0.572	1.645	1.985	3.658
76	0.273	0.564	0.568	1.641	1.980	3.640
77	0.271	0.560	0.564	1.637	1.975	3.622
78	0.269	0.556	0.560	1.633	1.970	3.604
79	0.267	0.552	0.556	1.629	1.965	3.586
80	0.265	0.548	0.552	1.625	1.960	3.568
81	0.263	0.544	0.548	1.621	1.955	3.550
82	0.261	0.540	0.544	1.617	1.950	3.532
83	0.259	0.536	0.540	1.613	1.945	3.514
84	0.257	0.532	0.536	1.609	1.940	3.496
85	0.255	0.528	0.532	1.605	1.935	3.478
86	0.253	0.524	0.528	1.601	1.930	3.460
87	0.251	0.520	0.524	1.597	1.925	3.442
88	0.249	0.516	0.520	1.593	1.920	3.424
89	0.247	0.512	0.516	1.589	1.915	3.406
90	0.245	0.508	0.512	1.585	1.910	3.388
91	0.243	0.504	0.508	1.581	1.905	3.370
92	0.241	0.500	0.504	1.577	1.900	3.352
93	0.239	0.496	0.500	1.573	1.895	3.334
94	0.237	0.492	0.496	1.569	1.890	3.316
95	0.235	0.488	0.492	1.565	1.885	3.298
96	0.233	0.484	0.488	1.561	1.880	3.280
97	0.231	0.480	0.484	1.557	1.875	3.262
98	0.229	0.476	0.480	1.553	1.870	3.244
99	0.227	0.472	0.476	1.549	1.865	3.226
100	0.225	0.468	0.472	1.545	1.860	3.208

