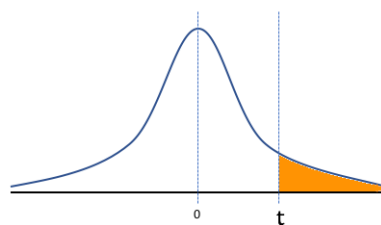


A graph of a standard normal distribution curve. The horizontal axis is labeled with 0 and Z. The area under the curve to the right of Z is shaded in orange.

A graph of a standard normal distribution curve. The horizontal axis is labeled with 0 and Z. The area under the curve to the right of Z is shaded in orange.

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	z
0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359	0
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0754	0.1
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141	0.2
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517	0.3
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879	0.4
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224	0.5
0.6	0.2258	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2518	0.2549	0.6
0.7	0.2580	0.2612	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852	0.7
0.8	0.2881	0.2910	0.2939	0.2967	0.2996	0.3023	0.3051	0.3079	0.3106	0.3133	0.8
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389	0.9
1	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621	1
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830	1.1
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015	1.2
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177	1.3
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319	1.4
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4430	0.4441	1.5
1.6	0.4452	0.4463	0.4474	0.4485	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545	1.6
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633	1.7
1.8	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4700	0.4706	1.8
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4762	0.4767	1.9
2	0.4773	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817	2
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857	2.1
2.2	0.4861	0.4865	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890	2.2
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916	2.3
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936	2.4
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952	2.5
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964	2.6
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974	2.7
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4980	0.4980	0.4981	2.8
2.9	0.4981	0.4982	0.4983	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986	2.9
3	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990	3
3.1	0.4990	0.4991	0.4991	0.4991	0.4992	0.4992	0.4992	0.4992	0.4993	0.4993	3.1
3.2	0.4993	0.4993	0.4994	0.4994	0.4994	0.4994	0.4994	0.4995	0.4995	0.4995	3.2
3.3	0.4995	0.4995	0.4996	0.4996	0.4996	0.4996	0.4996	0.4996	0.4996	0.4997	3.3
3.4	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4998	0.4998	3.4
3.5	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	3.5
3.6	0.4998	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	3.6
3.7	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	3.7
3.8	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	3.8
3.9	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	3.9

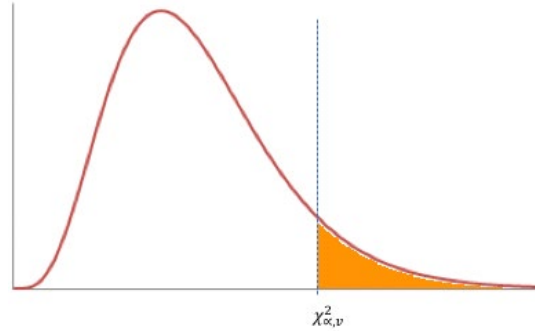
Table 2 T-Distribution Table



$$P(t > 2.23) = .025 \quad \text{d.f.} = 10$$

df	Tail probability p											
	0.25	0.2	0.15	0.1	0.05	0.025	0.02	0.01	0.005	0.0025	0.001	0.0005
1	1.000	1.376	1.963	3.078	6.314	12.706	15.895	31.821	63.657	127.321	318.309	636.619
2	0.816	1.061	1.386	1.886	2.920	4.303	4.849	6.965	9.925	14.089	22.327	31.599
3	0.765	0.978	1.250	1.638	2.353	3.182	3.482	4.541	5.841	7.453	10.215	12.924
4	0.741	0.941	1.190	1.533	2.132	2.776	2.999	3.747	4.604	5.598	7.173	8.610
5	0.727	0.920	1.156	1.476	2.015	2.571	2.757	3.365	4.032	4.773	5.893	6.869
6	0.718	0.906	1.134	1.440	1.943	2.447	2.612	3.143	3.707	4.317	5.208	5.959
7	0.711	0.896	1.119	1.415	1.895	2.365	2.517	2.998	3.499	4.029	4.785	5.408
8	0.706	0.889	1.108	1.397	1.860	2.306	2.449	2.896	3.355	3.833	4.501	5.041
9	0.703	0.883	1.100	1.383	1.833	2.262	2.398	2.821	3.250	3.690	4.297	4.781
10	0.700	0.879	1.093	1.372	1.812	2.228	2.359	2.764	3.169	3.581	4.144	4.587
11	0.697	0.876	1.088	1.363	1.796	2.201	2.328	2.718	3.106	3.497	4.025	4.437
12	0.695	0.873	1.083	1.356	1.782	2.179	2.303	2.681	3.055	3.428	3.930	4.318
13	0.694	0.870	1.079	1.350	1.771	2.160	2.282	2.650	3.012	3.372	3.852	4.221
14	0.692	0.868	1.076	1.345	1.761	2.145	2.264	2.624	2.977	3.326	3.787	4.140
15	0.691	0.866	1.074	1.341	1.753	2.131	2.249	2.602	2.947	3.286	3.733	4.073
16	0.690	0.865	1.071	1.337	1.746	2.120	2.235	2.583	2.921	3.252	3.686	4.015
17	0.689	0.863	1.069	1.333	1.740	2.110	2.224	2.567	2.898	3.222	3.646	3.965
18	0.688	0.862	1.067	1.330	1.734	2.101	2.214	2.552	2.878	3.197	3.610	3.922
19	0.688	0.861	1.066	1.328	1.729	2.093	2.205	2.539	2.861	3.174	3.579	3.883
20	0.687	0.860	1.064	1.325	1.725	2.086	2.197	2.528	2.845	3.153	3.552	3.850
21	0.686	0.859	1.063	1.323	1.721	2.080	2.189	2.518	2.831	3.135	3.527	3.819
22	0.686	0.858	1.061	1.321	1.717	2.074	2.183	2.508	2.819	3.119	3.505	3.792
23	0.685	0.858	1.060	1.319	1.714	2.069	2.177	2.500	2.807	3.104	3.485	3.768
24	0.685	0.857	1.059	1.318	1.711	2.064	2.172	2.492	2.797	3.091	3.467	3.745
25	0.684	0.856	1.058	1.316	1.708	2.060	2.167	2.485	2.787	3.078	3.450	3.725
26	0.684	0.856	1.058	1.315	1.706	2.056	2.162	2.479	2.779	3.067	3.435	3.707
27	0.684	0.855	1.057	1.314	1.703	2.052	2.158	2.473	2.771	3.057	3.421	3.690
28	0.683	0.855	1.056	1.313	1.701	2.048	2.154	2.467	2.763	3.047	3.408	3.674
29	0.683	0.854	1.055	1.311	1.699	2.045	2.150	2.462	2.756	3.038	3.396	3.659
30	0.683	0.854	1.055	1.310	1.697	2.042	2.147	2.457	2.750	3.030	3.385	3.646
40	0.681	0.851	1.050	1.303	1.684	2.021	2.123	2.423	2.704	2.971	3.307	3.551
50	0.679	0.849	1.047	1.299	1.676	2.009	2.109	2.403	2.678	2.937	3.261	3.496
60	0.679	0.848	1.045	1.296	1.671	2.000	2.099	2.390	2.660	2.915	3.232	3.460
80	0.678	0.846	1.043	1.292	1.664	1.990	2.088	2.374	2.639	2.887	3.195	3.416
100	0.677	0.845	1.042	1.290	1.660	1.984	2.081	2.364	2.626	2.871	3.174	3.390
1000	0.675	0.842	1.037	1.282	1.646	1.962	2.056	2.330	2.581	2.813	3.098	3.300
∞	0.674	0.842	1.036	1.282	1.645	1.960	2.054	2.326	2.576	2.807	3.090	3.291

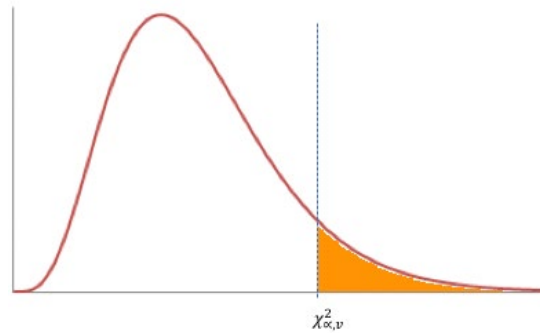
Table 3 Chi-Squared Table



$$P(\chi^2 > 16.750) = 0.005 \quad \text{d.f.} = 5$$

$\alpha =$	0.995	0.99	0.98	0.975	0.95	0.9	0.8	0.2	0.1	0.05	0.025	0.02	0.01	0.005	0.001	$= \alpha$
$v = 1$	0.00004	0.00016	0.00063	0.00098	0.00393	0.0158	0.0642	1.642	2.706	3.841	5.024	5.412	6.635	7.879	10.828	$v = 1$
2	0.0100	0.0201	0.0404	0.0506	0.103	0.211	0.446	3.219	4.605	5.991	7.378	7.824	9.210	10.597	13.816	2
3	0.072	0.115	0.185	0.216	0.352	0.584	1.005	4.642	6.251	7.815	9.348	9.837	11.345	12.838	16.266	3
4	0.207	0.297	0.429	0.484	0.711	1.064	1.649	5.989	7.779	9.488	11.143	11.668	13.277	14.860	18.467	4
5	0.412	0.554	0.752	0.831	1.145	1.610	2.343	7.289	9.236	11.070	12.833	13.388	15.086	16.750	20.515	5
6	0.676	0.872	1.134	1.237	1.635	2.204	3.070	8.558	10.645	12.592	14.449	15.033	16.812	18.548	22.458	6
7	0.989	1.239	1.564	1.690	2.167	2.833	3.822	9.803	12.017	14.067	16.013	16.622	18.475	20.278	24.322	7
8	1.344	1.646	2.032	2.180	2.733	3.490	4.594	11.030	13.362	15.507	17.535	18.168	20.090	21.955	26.124	8
9	1.735	2.088	2.532	2.700	3.325	4.168	5.380	12.242	14.684	16.919	19.023	19.679	21.666	23.589	27.877	9
10	2.156	2.558	3.059	3.247	3.940	4.865	6.179	13.442	15.987	18.307	20.483	21.161	23.209	25.188	29.588	10
11	2.603	3.053	3.609	3.816	4.575	5.578	6.989	14.631	17.275	19.675	21.920	22.618	24.725	26.757	31.264	11
12	3.074	3.571	4.178	4.404	5.226	6.304	7.807	15.812	18.549	21.026	23.337	24.054	26.217	28.300	32.909	12
13	3.565	4.107	4.765	5.009	5.892	7.042	8.634	16.985	19.812	22.362	24.736	25.472	27.688	29.819	34.528	13
14	4.075	4.660	5.368	5.629	6.571	7.790	9.467	18.151	21.064	23.685	26.119	26.873	29.141	31.319	36.123	14
15	4.601	5.229	5.985	6.262	7.261	8.547	10.307	19.311	22.307	24.996	27.488	28.259	30.578	32.801	37.697	15
16	5.142	5.812	6.614	6.908	7.962	9.312	11.152	20.465	23.542	26.296	28.845	29.633	32.000	34.267	39.252	16
17	5.697	6.408	7.255	7.564	8.672	10.085	12.002	21.615	24.769	27.587	30.191	30.995	33.409	35.718	40.790	17
18	6.265	7.015	7.906	8.231	9.390	10.865	12.857	22.760	25.989	28.869	31.526	32.346	34.805	37.156	42.312	18
19	6.844	7.633	8.567	8.907	10.117	11.651	13.716	23.900	27.204	30.144	32.852	33.687	36.191	38.582	43.820	19
20	7.434	8.260	9.237	9.591	10.851	12.443	14.578	25.038	28.412	31.410	34.170	35.020	37.566	39.997	45.315	20

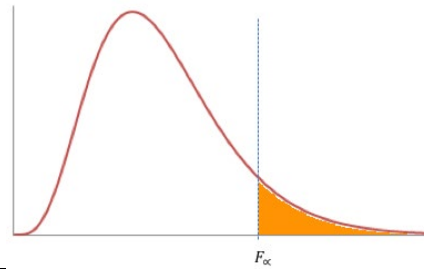
Table 3 Chi-Squared Table (Cont.)



$$P(\chi^2 > 16.750) = 0.005 \quad \text{d.f.} = 5$$

$\alpha =$	0.995	0.99	0.98	0.975	0.95	0.9	0.8	0.2	0.1	0.05	0.025	0.02	0.01	0.005	0.001	$= \alpha$
v=21	8.034	8.897	9.915	10.283	11.591	13.240	15.445	26.171	29.615	32.671	35.479	36.343	38.932	41.401	46.797	v=21
22	8.643	9.542	10.600	10.982	12.338	14.041	16.314	27.301	30.813	33.924	36.781	37.659	40.289	42.796	48.268	22
23	9.260	10.196	11.293	11.689	13.091	14.848	17.187	28.429	32.007	35.172	38.076	38.968	41.638	44.181	49.728	23
24	9.886	10.856	11.992	12.401	13.848	15.659	18.062	29.553	33.196	36.415	39.364	40.270	42.980	45.559	51.179	24
25	10.520	11.524	12.697	13.120	14.611	16.473	18.940	30.675	34.382	37.652	40.646	41.566	44.314	46.928	52.620	25
26	11.160	12.198	13.409	13.844	15.379	17.292	19.820	31.795	35.563	38.885	41.923	42.856	45.642	48.290	54.052	26
27	11.808	12.879	14.125	14.573	16.151	18.114	20.703	32.912	36.741	40.113	43.195	44.140	46.963	49.645	55.476	27
28	12.461	13.565	14.847	15.308	16.928	18.939	21.588	34.027	37.916	41.337	44.461	45.419	48.278	50.993	56.892	28
29	13.121	14.256	15.574	16.047	17.708	19.768	22.475	35.139	39.087	42.557	45.722	46.693	49.588	52.336	58.301	29
30	13.787	14.953	16.306	16.791	18.493	20.599	23.364	36.250	40.256	43.773	46.979	47.962	50.892	53.672	59.703	30
40	20.707	22.164	23.838	24.433	26.509	29.051	32.345	47.269	51.805	55.758	59.342	60.436	63.691	66.766	73.402	40
50	27.991	29.707	31.664	32.357	34.764	37.689	41.449	58.164	63.167	67.505	71.420	72.613	76.154	79.490	86.661	50
60	35.534	37.485	39.699	40.482	43.188	46.459	50.641	68.972	74.397	79.082	83.298	84.580	88.379	91.952	99.607	60
70	43.275	45.442	47.893	48.758	51.739	55.329	59.898	79.715	85.527	90.531	95.023	96.388	100.43	104.21	112.32	70
80	51.172	53.540	56.213	57.153	60.391	64.278	69.207	90.405	96.578	101.88	106.63	108.07	112.33	116.32	124.84	80
90	59.196	61.754	64.635	65.647	69.126	73.291	78.558	101.054	107.565	113.145	118.136	119.648	124.116	128.299	137.208	90
100	67.328	70.065	73.142	74.222	77.929	82.358	87.945	111.667	118.498	124.342	129.561	131.142	135.807	140.169	149.449	100

Table 4 F-Distribution Table



Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
1	0.100	39.863	49.500	53.593	55.833	57.240	58.204	58.906	59.439	59.858	1
	0.050	161.448	199.500	215.707	224.583	230.162	233.986	236.768	238.883	240.543	
	0.025	647.789	799.500	864.163	899.583	921.848	937.111	948.217	956.656	963.285	
	0.010	4052.181	4999.500	5403.352	5624.583	5763.650	5858.986	5928.356	5981.070	6022.473	
	0.005	16210.723	19999.500	21614.741	22499.583	23055.798	23437.111	23714.566	23925.406	24091.004	
2	0.100	8.526	9.000	9.162	9.243	9.293	9.326	9.349	9.367	9.381	2
	0.050	18.513	19.000	19.164	19.247	19.296	19.330	19.353	19.371	19.385	
	0.025	38.506	39.000	39.165	39.248	39.298	39.331	39.355	39.373	39.387	
	0.010	98.503	99.000	99.166	99.249	99.299	99.333	99.356	99.374	99.388	
	0.005	198.501	199.000	199.166	199.250	199.300	199.333	199.357	199.375	199.388	
3	0.100	5.538	5.462	5.391	5.343	5.309	5.285	5.266	5.252	5.240	3
	0.050	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	
	0.025	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473	
	0.010	34.116	30.817	29.457	28.710	28.237	27.911	27.672	27.489	27.345	
	0.005	55.552	49.799	47.467	46.195	45.392	44.838	44.434	44.126	43.882	
4	0.100	4.545	4.325	4.191	4.107	4.051	4.010	3.979	3.955	3.936	4
	0.050	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	
	0.025	12.218	10.649	9.979	9.605	9.364	9.197	9.074	8.980	8.905	
	0.010	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	
	0.005	31.333	26.284	24.259	23.155	22.456	21.975	21.622	21.352	21.139	
5	0.100	4.060	3.780	3.619	3.520	3.453	3.405	3.368	3.339	3.316	5
	0.050	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	
	0.025	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	
	0.010	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	
	0.005	22.785	18.314	16.530	15.556	14.940	14.513	14.200	13.961	13.772	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
1	60.195	60.705	61.220	61.740	62.002	62.265	62.529	62.794	63.061	63.328	0.100	1
	241.882	243.906	245.950	248.013	249.052	250.095	251.143	252.196	253.253	254.313	0.050	
	968.627	976.708	984.867	993.103	997.249	1001.414	1005.598	1009.800	1014.020	1018.253	0.025	
	6055.847	6106.321	6157.285	6208.730	6234.631	6260.649	6286.782	6313.030	6339.391	6365.833	0.010	
	24224.49	24426.37	24630.21	24835.97	24939.57	25043.63	25148.15	25253.14	25358.57	25464.33	0.005	
2	9.392	9.408	9.425	9.441	9.450	9.458	9.466	9.475	9.483	9.491	0.100	2
	19.396	19.413	19.429	19.446	19.454	19.462	19.471	19.479	19.487	19.496	0.050	
	39.398	39.415	39.431	39.448	39.456	39.465	39.473	39.481	39.490	39.498	0.025	
	99.399	99.416	99.433	99.449	99.458	99.466	99.474	99.482	99.491	99.499	0.010	
	199.400	199.416	199.433	199.450	199.458	199.466	199.475	199.483	199.491	199.500	0.005	
3	5.230	5.216	5.200	5.184	5.176	5.168	5.160	5.151	5.143	5.134	0.100	3
	8.786	8.745	8.703	8.660	8.639	8.617	8.594	8.572	8.549	8.526	0.050	
	14.419	14.337	14.253	14.167	14.124	14.081	14.037	13.992	13.947	13.902	0.025	
	27.229	27.052	26.872	26.690	26.598	26.505	26.411	26.316	26.221	26.125	0.010	
	43.686	43.387	43.085	42.778	42.622	42.466	42.308	42.149	41.989	41.828	0.005	
4	3.920	3.896	3.870	3.844	3.831	3.817	3.804	3.790	3.775	3.761	0.100	4
	5.964	5.912	5.858	5.803	5.774	5.746	5.717	5.688	5.658	5.628	0.050	
	8.844	8.751	8.657	8.560	8.511	8.461	8.411	8.360	8.309	8.257	0.025	
	14.546	14.374	14.198	14.020	13.929	13.838	13.745	13.652	13.558	13.463	0.010	
	20.967	20.705	20.438	20.167	20.030	19.892	19.752	19.611	19.468	19.325	0.005	
5	3.297	3.268	3.238	3.207	3.191	3.174	3.157	3.140	3.123	3.105	0.100	5
	4.735	4.678	4.619	4.558	4.527	4.496	4.464	4.431	4.398	4.365	0.050	
	6.619	6.525	6.428	6.329	6.278	6.227	6.175	6.123	6.069	6.015	0.025	
	10.051	9.888	9.722	9.553	9.466	9.379	9.291	9.202	9.112	9.021	0.010	
	13.618	13.384	13.146	12.903	12.780	12.656	12.530	12.402	12.274	12.144	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
6	0.100	3.776	3.463	3.289	3.181	3.108	3.055	3.014	2.983	2.958	6
	0.050	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	
	0.025	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	
	0.010	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	
	0.005	18.635	14.544	12.917	12.028	11.464	11.073	10.786	10.566	10.391	
7	0.100	3.589	3.257	3.074	2.961	2.883	2.827	2.785	2.752	2.725	7
	0.050	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	
	0.025	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	
	0.010	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	
	0.005	16.236	12.404	10.882	10.050	9.522	9.155	8.885	8.678	8.514	
8	0.100	3.458	3.113	2.924	2.806	2.726	2.668	2.624	2.589	2.561	8
	0.050	5.318	4.459	4.066	3.838	3.687	3.581	3.500	3.438	3.388	
	0.025	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	
	0.010	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	
	0.005	14.688	11.042	9.596	8.805	8.302	7.952	7.694	7.496	7.339	
9	0.100	3.360	3.006	2.813	2.693	2.611	2.551	2.505	2.469	2.440	9
	0.050	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	
	0.025	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	
	0.010	10.561	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	
	0.005	13.614	10.107	8.717	7.956	7.471	7.134	6.885	6.693	6.541	
10	0.100	3.285	2.924	2.728	2.605	2.522	2.461	2.414	2.377	2.347	10
	0.050	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	
	0.025	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	
	0.010	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	
	0.005	12.826	9.427	8.081	7.343	6.872	6.545	6.302	6.116	5.968	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
6	2.937	2.905	2.871	2.836	2.818	2.800	2.781	2.762	2.742	2.722	0.100	6
	4.060	4.000	3.938	3.874	3.841	3.808	3.774	3.740	3.705	3.669	0.050	
	5.461	5.366	5.269	5.168	5.117	5.065	5.012	4.959	4.904	4.849	0.025	
	7.874	7.718	7.559	7.396	7.313	7.229	7.143	7.057	6.969	6.880	0.010	
	10.250	10.034	9.814	9.589	9.474	9.358	9.241	9.122	9.001	8.879	0.005	
7	2.703	2.668	2.632	2.595	2.575	2.555	2.535	2.514	2.493	2.471	0.100	7
	3.637	3.575	3.511	3.445	3.410	3.376	3.340	3.304	3.267	3.230	0.050	
	4.761	4.666	4.568	4.467	4.415	4.362	4.309	4.254	4.199	4.142	0.025	
	6.620	6.469	6.314	6.155	6.074	5.992	5.908	5.824	5.737	5.650	0.010	
	8.380	8.176	7.968	7.754	7.645	7.534	7.422	7.309	7.193	7.076	0.005	
8	2.538	2.502	2.464	2.425	2.404	2.383	2.361	2.339	2.316	2.293	0.100	8
	3.347	3.284	3.218	3.150	3.115	3.079	3.043	3.005	2.967	2.928	0.050	
	4.295	4.200	4.101	3.999	3.947	3.894	3.840	3.784	3.728	3.670	0.025	
	5.814	5.667	5.515	5.359	5.279	5.198	5.116	5.032	4.946	4.859	0.010	
	7.211	7.015	6.814	6.608	6.503	6.396	6.288	6.177	6.065	5.951	0.005	
9	2.416	2.379	2.340	2.298	2.277	2.255	2.232	2.208	2.184	2.159	0.100	9
	3.137	3.073	3.006	2.936	2.900	2.864	2.826	2.787	2.748	2.707	0.050	
	3.964	3.868	3.769	3.667	3.614	3.560	3.505	3.449	3.392	3.333	0.025	
	5.257	5.111	4.962	4.808	4.729	4.649	4.567	4.483	4.398	4.311	0.010	
	6.417	6.227	6.032	5.832	5.729	5.625	5.519	5.410	5.300	5.188	0.005	
10	2.323	2.284	2.244	2.201	2.178	2.155	2.132	2.107	2.082	2.055	0.100	10
	2.978	2.913	2.845	2.774	2.737	2.700	2.661	2.621	2.580	2.538	0.050	
	3.717	3.621	3.522	3.419	3.365	3.311	3.255	3.198	3.140	3.080	0.025	
	4.849	4.706	4.558	4.405	4.327	4.247	4.165	4.082	3.996	3.909	0.010	
	5.847	5.661	5.471	5.274	5.173	5.071	4.966	4.859	4.750	4.639	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
11	0.100	3.225	2.860	2.660	2.536	2.451	2.389	2.342	2.304	2.274	11
	0.050	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	
	0.025	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	
	0.010	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	
	0.005	12.226	8.912	7.600	6.881	6.422	6.102	5.865	5.682	5.537	
12	0.100	3.177	2.807	2.606	2.480	2.394	2.331	2.283	2.245	2.214	12
	0.050	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	
	0.025	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	
	0.010	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	
	0.005	11.754	8.510	7.226	6.521	6.071	5.757	5.525	5.345	5.202	
13	0.100	3.136	2.763	2.560	2.434	2.347	2.283	2.234	2.195	2.164	13
	0.050	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	
	0.025	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	
	0.010	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	
	0.005	11.374	8.186	6.926	6.233	5.791	5.482	5.253	5.076	4.935	
14	0.100	3.102	2.726	2.522	2.395	2.307	2.243	2.193	2.154	2.122	14
	0.050	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	
	0.025	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	
	0.010	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	
	0.005	11.060	7.922	6.680	5.998	5.562	5.257	5.031	4.857	4.717	
15	0.100	3.073	2.695	2.490	2.361	2.273	2.208	2.158	2.119	2.086	15
	0.050	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	
	0.025	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	
	0.010	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	
	0.005	10.798	7.701	6.476	5.803	5.372	5.071	4.847	4.674	4.536	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
11	2.248	2.209	2.167	2.123	2.100	2.076	2.052	2.026	2.000	1.972	0.100	11
	2.854	2.788	2.719	2.646	2.609	2.570	2.531	2.490	2.448	2.405	0.050	
	3.526	3.430	3.330	3.226	3.173	3.118	3.061	3.004	2.944	2.883	0.025	
	4.539	4.397	4.251	4.099	4.021	3.941	3.860	3.776	3.690	3.603	0.010	
	5.418	5.236	5.049	4.855	4.756	4.654	4.551	4.445	4.337	4.226	0.005	
12	2.188	2.147	2.105	2.060	2.036	2.011	1.986	1.960	1.932	1.904	0.100	12
	2.753	2.687	2.617	2.544	2.505	2.466	2.426	2.384	2.341	2.296	0.050	
	3.374	3.277	3.177	3.073	3.019	2.963	2.906	2.848	2.787	2.725	0.025	
	4.296	4.155	4.010	3.858	3.780	3.701	3.619	3.535	3.449	3.361	0.010	
	5.085	4.906	4.721	4.530	4.431	4.331	4.228	4.123	4.015	3.904	0.005	
13	2.138	2.097	2.053	2.007	1.983	1.958	1.931	1.904	1.876	1.846	0.100	13
	2.671	2.604	2.533	2.459	2.420	2.380	2.339	2.297	2.252	2.206	0.050	
	3.250	3.153	3.053	2.948	2.893	2.837	2.780	2.720	2.659	2.596	0.025	
	4.100	3.960	3.815	3.665	3.587	3.507	3.425	3.341	3.255	3.166	0.010	
	4.820	4.643	4.460	4.270	4.173	4.073	3.970	3.866	3.758	3.647	0.005	
14	2.095	2.054	2.010	1.962	1.938	1.912	1.885	1.857	1.828	1.797	0.100	14
	2.602	2.534	2.463	2.388	2.349	2.308	2.266	2.223	2.178	2.131	0.050	
	3.147	3.050	2.949	2.844	2.789	2.732	2.674	2.614	2.552	2.487	0.025	
	3.939	3.800	3.656	3.505	3.427	3.348	3.266	3.181	3.094	3.004	0.010	
	4.603	4.428	4.247	4.059	3.961	3.862	3.760	3.655	3.547	3.436	0.005	
15	2.059	2.017	1.972	1.924	1.899	1.873	1.845	1.817	1.787	1.755	0.100	15
	2.544	2.475	2.403	2.328	2.288	2.247	2.204	2.160	2.114	2.066	0.050	
	3.060	2.963	2.862	2.756	2.701	2.644	2.585	2.524	2.461	2.395	0.025	
	3.805	3.666	3.522	3.372	3.294	3.214	3.132	3.047	2.959	2.869	0.010	
	4.424	4.250	4.070	3.883	3.786	3.687	3.585	3.480	3.372	3.260	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
16	0.100	3.048	2.668	2.462	2.333	2.244	2.178	2.128	2.088	2.055	16
	0.050	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	
	0.025	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	
	0.010	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	
	0.005	10.575	7.514	6.303	5.638	5.212	4.913	4.692	4.521	4.384	
17	0.100	3.026	2.645	2.437	2.308	2.218	2.152	2.102	2.061	2.028	17
	0.050	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	
	0.025	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985	
	0.010	8.400	6.112	5.185	4.669	4.336	4.102	3.927	3.791	3.682	
	0.005	10.384	7.354	6.156	5.497	5.075	4.779	4.559	4.389	4.254	
18	0.100	3.007	2.624	2.416	2.286	2.196	2.130	2.079	2.038	2.005	18
	0.050	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	
	0.025	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	
	0.010	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	
	0.005	10.218	7.215	6.028	5.375	4.956	4.663	4.445	4.276	4.141	
19	0.100	2.990	2.606	2.397	2.266	2.176	2.109	2.058	2.017	1.984	19
	0.050	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	
	0.025	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	
	0.010	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.523	
	0.005	10.073	7.093	5.916	5.268	4.853	4.561	4.345	4.177	4.043	
20	0.100	2.975	2.589	2.380	2.249	2.158	2.091	2.040	1.999	1.965	20
	0.050	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	
	0.025	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	
	0.010	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	
	0.005	9.944	6.986	5.818	5.174	4.762	4.472	4.257	4.090	3.956	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
16	2.028	1.985	1.940	1.891	1.866	1.839	1.811	1.782	1.751	1.718	0.100	16
	2.494	2.425	2.352	2.276	2.235	2.194	2.151	2.106	2.059	2.010	0.050	
	2.986	2.889	2.788	2.681	2.625	2.568	2.509	2.447	2.383	2.316	0.025	
	3.691	3.553	3.409	3.259	3.181	3.101	3.018	2.933	2.845	2.753	0.010	
	4.272	4.099	3.920	3.734	3.638	3.539	3.437	3.332	3.224	3.112	0.005	
17	2.001	1.958	1.912	1.862	1.836	1.809	1.781	1.751	1.719	1.686	0.100	17
	2.450	2.381	2.308	2.230	2.190	2.148	2.104	2.058	2.011	1.960	0.050	
	2.922	2.825	2.723	2.616	2.560	2.502	2.442	2.380	2.315	2.248	0.025	
	3.593	3.455	3.312	3.162	3.084	3.003	2.920	2.835	2.746	2.653	0.010	
	4.142	3.971	3.793	3.607	3.511	3.412	3.311	3.206	3.097	2.984	0.005	
18	1.977	1.933	1.887	1.837	1.810	1.783	1.754	1.723	1.691	1.657	0.100	18
	2.412	2.342	2.269	2.191	2.150	2.107	2.063	2.017	1.968	1.917	0.050	
	2.866	2.769	2.667	2.559	2.503	2.445	2.384	2.321	2.256	2.187	0.025	
	3.508	3.371	3.227	3.077	2.999	2.919	2.835	2.749	2.660	2.566	0.010	
	4.030	3.860	3.683	3.498	3.402	3.303	3.201	3.096	2.987	2.873	0.005	
19	1.956	1.912	1.865	1.814	1.787	1.759	1.730	1.699	1.666	1.631	0.100	19
	2.378	2.308	2.234	2.155	2.114	2.071	2.026	1.980	1.930	1.878	0.050	
	2.817	2.720	2.617	2.509	2.452	2.394	2.333	2.270	2.203	2.133	0.025	
	3.434	3.297	3.153	3.003	2.925	2.844	2.761	2.674	2.584	2.489	0.010	
	3.933	3.763	3.587	3.402	3.306	3.208	3.106	3.000	2.891	2.776	0.005	
20	1.937	1.892	1.845	1.794	1.767	1.738	1.708	1.677	1.643	1.607	0.100	20
	2.348	2.278	2.203	2.124	2.082	2.039	1.994	1.946	1.896	1.843	0.050	
	2.774	2.676	2.573	2.464	2.408	2.349	2.287	2.223	2.156	2.085	0.025	
	3.368	3.231	3.088	2.938	2.859	2.778	2.695	2.608	2.517	2.421	0.010	
	3.847	3.678	3.502	3.318	3.222	3.123	3.022	2.916	2.806	2.691	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
21	0.100	2.961	2.575	2.365	2.233	2.142	2.075	2.023	1.982	1.948	21
	0.050	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	
	0.025	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798	
	0.010	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	
	0.005	9.830	6.891	5.730	5.091	4.681	4.393	4.179	4.013	3.880	
22	0.100	2.949	2.561	2.351	2.219	2.128	2.060	2.008	1.967	1.933	22
	0.050	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	
	0.025	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763	
	0.010	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	
	0.005	9.727	6.806	5.652	5.017	4.609	4.322	4.109	3.944	3.812	
23	0.100	2.937	2.549	2.339	2.207	2.115	2.047	1.995	1.953	1.919	23
	0.050	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	
	0.025	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731	
	0.010	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	
	0.005	9.635	6.730	5.582	4.950	4.544	4.259	4.047	3.882	3.750	
24	0.100	2.927	2.538	2.327	2.195	2.103	2.035	1.983	1.941	1.906	24
	0.050	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	
	0.025	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703	
	0.010	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	
	0.005	9.551	6.661	5.519	4.890	4.486	4.202	3.991	3.826	3.695	
25	0.100	2.918	2.528	2.317	2.184	2.092	2.024	1.971	1.929	1.895	25
	0.050	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	
	0.025	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677	
	0.010	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	
	0.005	9.475	6.598	5.462	4.835	4.433	4.150	3.939	3.776	3.645	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
21	1.920	1.875	1.827	1.776	1.748	1.719	1.689	1.657	1.623	1.586	0.100	21
	2.321	2.250	2.176	2.096	2.054	2.010	1.965	1.916	1.866	1.812	0.050	
	2.735	2.637	2.534	2.425	2.368	2.308	2.246	2.182	2.114	2.042	0.025	
	3.310	3.173	3.030	2.880	2.801	2.720	2.636	2.548	2.457	2.360	0.010	
	3.771	3.602	3.427	3.243	3.147	3.049	2.947	2.841	2.730	2.614	0.005	
22	1.904	1.859	1.811	1.759	1.731	1.702	1.671	1.639	1.604	1.567	0.100	22
	2.297	2.226	2.151	2.071	2.028	1.984	1.938	1.889	1.838	1.783	0.050	
	2.700	2.602	2.498	2.389	2.331	2.272	2.210	2.145	2.076	2.003	0.025	
	3.258	3.121	2.978	2.827	2.749	2.667	2.583	2.495	2.403	2.306	0.010	
	3.703	3.535	3.360	3.176	3.081	2.982	2.880	2.774	2.663	2.546	0.005	
23	1.890	1.845	1.796	1.744	1.716	1.686	1.655	1.622	1.587	1.549	0.100	23
	2.275	2.204	2.128	2.048	2.005	1.961	1.914	1.865	1.813	1.757	0.050	
	2.668	2.570	2.466	2.357	2.299	2.239	2.176	2.111	2.041	1.968	0.025	
	3.211	3.074	2.931	2.781	2.702	2.620	2.535	2.447	2.354	2.256	0.010	
	3.642	3.475	3.300	3.116	3.021	2.922	2.820	2.713	2.602	2.484	0.005	
24	1.877	1.832	1.783	1.730	1.702	1.672	1.641	1.607	1.571	1.533	0.100	24
	2.255	2.183	2.108	2.027	1.984	1.939	1.892	1.842	1.790	1.733	0.050	
	2.640	2.541	2.437	2.327	2.269	2.209	2.146	2.080	2.010	1.935	0.025	
	3.168	3.032	2.889	2.738	2.659	2.577	2.492	2.403	2.310	2.211	0.010	
	3.587	3.420	3.246	3.062	2.967	2.868	2.765	2.658	2.546	2.428	0.005	
25	1.866	1.820	1.771	1.718	1.689	1.659	1.627	1.593	1.557	1.518	0.100	25
	2.236	2.165	2.089	2.007	1.964	1.919	1.872	1.822	1.768	1.711	0.050	
	2.613	2.515	2.411	2.300	2.242	2.182	2.118	2.052	1.981	1.906	0.025	
	3.129	2.993	2.850	2.699	2.620	2.538	2.453	2.364	2.270	2.170	0.010	
	3.537	3.370	3.196	3.013	2.918	2.819	2.716	2.609	2.496	2.377	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
26	0.100	2.909	2.519	2.307	2.174	2.082	2.014	1.961	1.919	1.884	26
	0.050	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	
	0.025	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653	
	0.010	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	
	0.005	9.406	6.541	5.409	4.785	4.384	4.103	3.893	3.730	3.599	
27	0.100	2.901	2.511	2.299	2.165	2.073	2.005	1.952	1.909	1.874	27
	0.050	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	
	0.025	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631	
	0.010	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	
	0.005	9.342	6.489	5.361	4.740	4.340	4.059	3.850	3.687	3.557	
28	0.100	2.894	2.503	2.291	2.157	2.064	1.996	1.943	1.900	1.865	28
	0.050	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	
	0.025	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611	
	0.010	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	
	0.005	9.284	6.440	5.317	4.698	4.300	4.020	3.811	3.649	3.519	
29	0.100	2.887	2.495	2.283	2.149	2.057	1.988	1.935	1.892	1.857	29
	0.050	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	
	0.025	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592	
	0.010	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	
	0.005	9.230	6.396	5.276	4.659	4.262	3.983	3.775	3.613	3.483	
30	0.100	2.881	2.489	2.276	2.142	2.049	1.980	1.927	1.884	1.849	30
	0.050	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	
	0.025	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	
	0.010	7.562	5.390	4.510	4.018	3.699	3.473	3.304	3.173	3.067	
	0.005	9.180	6.355	5.239	4.623	4.228	3.949	3.742	3.580	3.450	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
26	1.855	1.809	1.760	1.706	1.677	1.647	1.615	1.581	1.544	1.504	0.100	26
	2.220	2.148	2.072	1.990	1.946	1.901	1.853	1.803	1.749	1.691	0.050	
	2.590	2.491	2.387	2.276	2.217	2.157	2.093	2.026	1.954	1.878	0.025	
	3.094	2.958	2.815	2.664	2.585	2.503	2.417	2.327	2.233	2.132	0.010	
	3.492	3.325	3.151	2.968	2.873	2.774	2.671	2.563	2.450	2.330	0.005	
27	1.845	1.799	1.749	1.695	1.666	1.636	1.603	1.569	1.531	1.491	0.100	27
	2.204	2.132	2.056	1.974	1.930	1.884	1.836	1.785	1.731	1.672	0.050	
	2.568	2.469	2.364	2.253	2.195	2.133	2.069	2.002	1.930	1.853	0.025	
	3.062	2.926	2.783	2.632	2.552	2.470	2.384	2.294	2.198	2.097	0.010	
	3.450	3.284	3.110	2.928	2.832	2.733	2.630	2.522	2.408	2.287	0.005	
28	1.836	1.790	1.740	1.685	1.656	1.625	1.592	1.558	1.520	1.478	0.100	28
	2.190	2.118	2.041	1.959	1.915	1.869	1.820	1.769	1.714	1.654	0.050	
	2.547	2.448	2.344	2.232	2.174	2.112	2.048	1.980	1.907	1.829	0.025	
	3.032	2.896	2.753	2.602	2.522	2.440	2.354	2.263	2.167	2.064	0.010	
	3.412	3.246	3.073	2.890	2.794	2.695	2.592	2.483	2.369	2.247	0.005	
29	1.827	1.781	1.731	1.676	1.647	1.616	1.583	1.547	1.509	1.467	0.100	29
	2.177	2.104	2.027	1.945	1.901	1.854	1.806	1.754	1.698	1.638	0.050	
	2.529	2.430	2.325	2.213	2.154	2.092	2.028	1.959	1.886	1.807	0.025	
	3.005	2.868	2.726	2.574	2.495	2.412	2.325	2.234	2.138	2.034	0.010	
	3.377	3.211	3.038	2.855	2.759	2.660	2.557	2.448	2.333	2.210	0.005	
30	1.819	1.773	1.722	1.667	1.638	1.606	1.573	1.538	1.499	1.456	0.100	30
	2.165	2.092	2.015	1.932	1.887	1.841	1.792	1.740	1.683	1.622	0.050	
	2.511	2.412	2.307	2.195	2.136	2.074	2.009	1.940	1.866	1.787	0.025	
	2.979	2.843	2.700	2.549	2.469	2.386	2.299	2.208	2.111	2.006	0.010	
	3.344	3.179	3.006	2.823	2.727	2.628	2.524	2.415	2.300	2.176	0.005	

Denominator d.f.	Numerator d.f.										Denominator d.f.
	α	1	2	3	4	5	6	7	8	9	
40	0.100	2.835	2.440	2.226	2.091	1.997	1.927	1.873	1.829	1.793	40
	0.050	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	
	0.025	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	
	0.010	7.314	5.179	4.313	3.828	3.514	3.291	3.124	2.993	2.888	
	0.005	8.828	6.066	4.976	4.374	3.986	3.713	3.509	3.350	3.222	
60	0.100	2.791	2.393	2.177	2.041	1.946	1.875	1.819	1.775	1.738	60
	0.050	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	
	0.025	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	
	0.010	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	
	0.005	8.495	5.795	4.729	4.140	3.760	3.492	3.291	3.134	3.008	
120	0.100	2.748	2.347	2.130	1.992	1.896	1.824	1.767	1.722	1.684	120
	0.050	3.920	3.072	2.680	2.447	2.290	2.175	2.087	2.016	1.959	
	0.025	5.152	3.805	3.227	2.894	2.674	2.515	2.395	2.299	2.222	
	0.010	6.851	4.787	3.949	3.480	3.174	2.956	2.792	2.663	2.559	
	0.005	8.179	5.539	4.497	3.921	3.548	3.285	3.087	2.933	2.808	
∞	0.100	2.706	2.303	2.084	1.945	1.847	1.774	1.717	1.670	1.632	∞
	0.050	3.842	2.996	2.605	2.372	2.214	2.099	2.010	1.939	1.880	
	0.025	5.024	3.689	3.116	2.786	2.567	2.408	2.288	2.192	2.114	
	0.010	6.635	4.605	3.782	3.319	3.017	2.802	2.640	2.511	2.408	
	0.005	7.880	5.299	4.280	3.715	3.350	3.091	2.897	2.745	2.621	

Denominator d.f.	Numerator d.f.											Denominator d.f.
	10	12	15	20	24	30	40	60	120	∞	α	
40	1.763	1.715	1.662	1.605	1.574	1.541	1.506	1.467	1.425	1.377	0.100	40
	2.077	2.003	1.924	1.839	1.793	1.744	1.693	1.637	1.577	1.509	0.050	
	2.388	2.288	2.182	2.068	2.007	1.943	1.875	1.803	1.724	1.637	0.025	
	2.801	2.665	2.522	2.369	2.288	2.203	2.114	2.019	1.917	1.805	0.010	
	3.117	2.953	2.781	2.598	2.502	2.401	2.296	2.184	2.064	1.932	0.005	
60	1.707	1.657	1.603	1.543	1.511	1.476	1.437	1.395	1.348	1.292	0.100	60
	1.993	1.917	1.836	1.748	1.700	1.649	1.594	1.534	1.467	1.389	0.050	
	2.270	2.169	2.061	1.944	1.882	1.815	1.744	1.667	1.581	1.482	0.025	
	2.632	2.496	2.352	2.198	2.115	2.028	1.936	1.836	1.726	1.601	0.010	
	2.904	2.742	2.570	2.387	2.290	2.187	2.079	1.962	1.834	1.689	0.005	
120	1.652	1.601	1.545	1.482	1.447	1.409	1.368	1.320	1.265	1.193	0.100	120
	1.910	1.834	1.750	1.659	1.608	1.554	1.495	1.429	1.352	1.254	0.050	
	2.157	2.055	1.945	1.825	1.760	1.690	1.614	1.530	1.433	1.311	0.025	
	2.472	2.336	2.192	2.035	1.950	1.860	1.763	1.656	1.533	1.381	0.010	
	2.705	2.544	2.373	2.188	2.089	1.984	1.871	1.747	1.606	1.431	0.005	
∞	1.599	1.546	1.487	1.421	1.383	1.342	1.295	1.240	1.169	1.008	0.100	∞
	1.831	1.752	1.666	1.571	1.517	1.459	1.394	1.318	1.222	1.010	0.050	
	2.048	1.945	1.833	1.709	1.640	1.566	1.484	1.388	1.269	1.012	0.025	
	2.321	2.185	2.039	1.878	1.791	1.697	1.592	1.473	1.325	1.015	0.010	
	2.519	2.359	2.187	2.000	1.898	1.789	1.669	1.533	1.364	1.016	0.005	