

جدول القيم الحرجة لإختبار "ت" T Test :

df	One-tailed test (طرف واحد)		Two-tailed Test (طرفين)		df	One-tailed test (طرف واحد)		Two-tailed Test (طرفين)	
	0.05	0.01	0.05	0.01		0.05	0.01	0.05	0.01
1	6.314	31.821	12.706	63.657	28	1.701	2.467	2.048	2.763
2	2.920	6.965	4.303	9.925	29	1.699	2.462	2.045	2.756
3	2.353	4.541	3.182	5.841	30	1.697	2.457	2.042	2.750
4	2.132	3.747	2.776	4.604	32	1.694	2.449	2.037	2.738
5	2.015	3.365	2.571	4.032	34	1.691	2.441	2.032	2.728
6	1.943	3.143	2.447	3.707	36	1.688	2.434	2.028	2.719
7	1.894	2.998	2.365	3.499	38	1.686	2.429	2.024	2.712
8	1.860	2.896	2.306	3.355	40	1.684	2.423	2.021	2.704
9	1.833	2.821	2.262	3.250	42	1.682	2.418	2.018	2.698
10	1.812	2.764	2.228	3.169	44	1.680	2.414	2.015	2.692
11	1.796	2.718	2.201	3.106	46	1.679	2.410	2.013	2.687
12	1.782	2.681	2.179	3.055	48	1.677	2.407	2.011	2.682
13	1.771	2.650	2.160	3.012	50	1.676	2.403	2.009	2.678
14	1.761	2.624	2.145	2.977	60	1.671	2.390	2.000	2.660
15	1.753	2.602	2.131	2.947	70	1.667	2.381	1.994	2.648
16	1.746	2.583	2.120	2.921	80	1.664	2.374	1.990	2.639
17	1.740	2.567	2.110	2.898	90	1.662	2.368	1.987	2.632
18	1.734	2.552	2.101	2.878	100	1.660	2.364	1.984	2.626
19	1.729	2.539	2.093	2.861	120	1.658	2.358	1.980	2.617
20	1.725	2.528	2.086	2.845	150	1.655	2.351	1.976	2.609
21	1.721	2.518	2.080	2.831	200	1.653	2.345	1.972	2.601
22	1.717	2.508	2.074	2.819	300	1.650	2.339	1.968	2.592
23	1.714	2.500	2.069	2.807	400	1.649	2.336	1.966	2.588
24	1.711	2.492	2.064	2.797	500	1.648	2.334	1.965	2.586
25	1.708	2.485	2.060	2.787	600	1.647	2.333	1.964	2.584
26	1.706	2.479	2.056	2.779	∞	1.645	2.326	1.960	2.576
27	1.703	2.473	2.052	2.771					

جدول القيم الحرجة لإختبار كاي تربيع:

df	P = 0.05	P = 0.01	df	P = 0.05	P = 0.01	df	P = 0.05	P = 0.01
1	3.84	6.64	39	54.57	62.43	77	98.49	108.77
2	5.99	9.21	40	55.76	63.69	78	99.62	109.96
3	7.82	11.35	41	56.94	64.95	79	100.75	111.15
4	9.49	13.28	42	58.12	66.21	80	101.88	112.33
5	11.07	15.09	43	59.30	67.46	81	103.01	113.51
6	12.59	16.81	44	60.48	68.71	82	104.14	114.70
7	14.07	18.48	45	61.66	69.96	83	105.27	115.88
8	15.51	20.09	46	62.83	71.20	84	106.40	117.06
9	16.92	21.67	47	64.00	72.44	85	107.52	118.24
10	18.31	23.21	48	65.17	73.68	86	108.65	119.41
11	19.68	24.73	49	66.34	74.92	87	109.77	120.59
12	21.03	26.22	50	67.51	76.15	88	110.90	121.77
13	22.36	27.69	51	68.67	77.39	89	112.02	122.94
14	23.69	29.14	52	69.83	78.62	90	113.15	124.12
15	25.00	30.58	53	70.99	79.84	91	114.27	125.29
16	26.30	32.00	54	72.15	81.07	92	115.39	126.46
17	27.59	33.41	55	73.31	82.29	93	116.51	127.63
18	28.87	34.81	56	74.47	83.52	94	117.63	128.80
19	30.14	36.19	57	75.62	84.73	95	118.75	129.97
20	31.41	37.57	58	76.78	85.95	96	119.87	131.14
21	32.67	38.93	59	77.93	87.17	97	120.99	132.31
22	33.92	40.29	60	79.08	88.38	98	122.11	133.47
23	35.17	41.64	61	80.23	89.59	99	123.23	134.64
24	36.42	42.98	62	81.38	90.80	100	124.34	135.81
25	37.65	44.31	63	82.53	92.01	110	135.48	147.41
26	38.89	45.64	64	83.68	93.22	120	146.57	158.95
27	40.11	46.96	65	84.82	94.42	130	157.61	170.42
28	41.34	48.28	66	85.97	95.63	140	168.61	181.84
29	42.56	49.59	67	87.11	96.83	150	179.58	193.21
30	43.77	50.89	68	88.25	98.03	200	233.99	249.45
31	44.99	52.19	69	89.39	99.23	500	553.13	576.49
32	46.19	53.49	70	90.53	100.42			
33	47.40	54.78	71	91.67	101.62			
34	48.60	56.06	72	92.81	102.82			
35	49.80	57.34	73	93.95	104.01			
36	51.00	58.62	74	95.08	105.20			
37	52.19	59.89	75	96.22	106.39			
38	53.38	61.16	76	97.35	107.58			

جدول القيم الحرجة لإختبار (F):

درجات حرية البسط (df1) درجات حرية المقام (df2)

$$\alpha = 0.05$$

df2/df1	1	2	3	4	5	6	7	8	9	10
1	161.4476	199.50	215.7073	224.5832	230.1619	233.9860	236.7684	238.8827	240.5433	241.8817
2	18.5128	19.00	19.1643	19.2468	19.2964	19.3295	19.3532	19.3710	19.3848	19.3959
3	10.1280	9.5521	9.2766	9.1172	9.0135	8.9406	8.8867	8.8452	8.8123	8.7855
4	7.7086	6.9443	6.5914	6.3882	6.2561	6.1631	6.0942	6.0410	5.9988	5.9644
5	6.6079	5.7861	5.4095	5.1922	5.0503	4.9503	4.8759	4.8183	4.7725	4.7351
6	5.9874	5.1433	4.7571	4.5337	4.3874	4.2839	4.2067	4.1468	4.0990	4.0600
7	5.5914	4.7374	4.3468	4.1203	3.9715	3.8660	3.7870	3.7257	3.6767	3.6365
8	5.3177	4.4590	4.0662	3.8379	3.6875	3.5806	3.5005	3.4381	3.3881	3.3472
9	5.1174	4.2565	3.8625	3.6331	3.4817	3.3738	3.2927	3.2296	3.1789	3.1373
10	4.9646	4.1028	3.7083	3.4780	3.3258	3.2172	3.1355	3.0717	3.0204	2.9782
11	4.8443	3.9823	3.5874	3.3567	3.2039	3.0946	3.0123	2.9480	2.8962	2.8536
12	4.7472	3.8853	3.4903	3.2592	3.1059	2.9961	2.9134	2.8486	2.7964	2.7534
13	4.6672	3.8056	3.4105	3.1791	3.0254	2.9153	2.8321	2.7669	2.7144	2.6710
14	4.6001	3.7389	3.3439	3.1122	2.9582	2.8477	2.7642	2.6987	2.6458	2.6022
15	4.5431	3.6823	3.2874	3.0556	2.9013	2.7905	2.7066	2.6408	2.5876	2.5437
16	4.4940	3.6337	3.2389	3.0069	2.8524	2.7413	2.6572	2.5911	2.5377	2.4935
17	4.4513	3.5915	3.1968	2.9647	2.8100	2.6987	2.6143	2.5480	2.4943	2.4499
18	4.4139	3.5546	3.1599	2.9277	2.7729	2.6613	2.5767	2.5102	2.4563	2.4117
19	4.3807	3.5219	3.1274	2.8951	2.7401	2.6283	2.5435	2.4768	2.4227	2.3779
20	4.3512	3.4928	3.0984	2.8661	2.7109	2.5990	2.5140	2.4471	2.3928	2.3479
21	4.3248	3.4668	3.0725	2.8401	2.6848	2.5727	2.4876	2.4205	2.3660	2.3210
22	4.3009	3.4434	3.0491	2.8167	2.6613	2.5491	2.4638	2.3965	2.3419	2.2967
23	4.2793	3.4221	3.0280	2.7955	2.6400	2.5277	2.4422	2.3748	2.3201	2.2747
24	4.2597	3.4028	3.0088	2.7763	2.6207	2.5082	2.4226	2.3551	2.3002	2.2547
25	4.2417	3.3852	2.9912	2.7587	2.6030	2.4904	2.4047	2.3371	2.2821	2.2365
26	4.2252	3.3690	2.9752	2.7426	2.5868	2.4741	2.3883	2.3205	2.2655	2.2197
27	4.2100	3.3541	2.9604	2.7278	2.5719	2.4591	2.3732	2.3053	1.7306	1.6717
28	4.1960	3.3404	2.9467	2.7141	2.5581	2.4453	2.3593	2.2913	2.2360	2.1900
29	4.1830	3.3277	2.9340	2.7014	2.5454	2.4324	2.3463	2.2783	2.2229	2.1768
30	4.1709	3.3158	2.9223	2.6896	2.5336	2.4205	2.3343	2.2662	2.2107	2.1646
40	4.0847	3.2317	2.8387	2.6060	2.4495	2.3359	2.2490	2.1802	2.1240	2.0772
60	4.0012	3.1504	2.7581	2.5252	2.3683	2.2541	2.1665	2.0970	2.0401	1.9926
120	3.9201	3.0718	2.6802	2.4472	2.2899	2.1750	2.0868	2.0164	1.9588	1.9105
∞	3.8415	2.9957	2.6049	2.3719	2.2141	2.0986	2.0096	1.9384	1.8799	1.8307

تابع لجدول القيم الحرجة لإختبار (F):

درجات حرية البسط (df1) درجات حرية المقام (df2)

$$\alpha = 0.05$$

df2/df1	12	15	20	24	30	40	60	120	∞
1	243.9060	245.9499	248.0131	249.0518	250.0951	251.1432	252.1957	253.2529	254.3144
2	19.4125	19.4291	19.4458	19.4541	19.4624	19.4707	19.4791	19.4874	19.4957
3	8.7446	8.7029	8.6602	8.6385	8.6166	8.5944	8.5720	8.5494	8.5264
4	5.9117	5.8578	5.8025	5.7744	5.7459	5.7170	5.6877	5.6581	5.6281
5	4.6777	4.6188	4.5581	4.5272	4.4957	4.4638	4.4314	4.3985	4.3650
6	3.9999	3.9381	3.8742	3.8415	3.8082	3.7743	3.7398	3.7047	3.6689
7	3.5747	3.5107	3.4445	3.4105	3.3758	3.3404	3.3043	3.2674	3.2298
8	3.2839	3.2184	3.1503	3.1152	3.0794	3.0428	3.0053	2.9669	2.9276
9	3.0729	3.0061	2.9365	2.9005	2.8637	2.8259	2.7872	2.7475	2.7067
10	2.9130	2.8450	2.7740	2.7372	2.6996	2.6609	2.6211	2.5801	2.5379
11	2.7876	2.7186	2.6464	2.6090	2.5705	2.5309	2.4901	2.4480	2.4045
12	2.6866	2.6169	2.5436	2.5055	2.4663	2.4259	2.3842	2.3410	2.2962
13	2.6037	2.5331	2.4589	2.4202	2.3803	2.3392	2.2966	2.2524	2.2064
14	2.5342	2.4630	2.3879	2.3487	2.3082	2.2664	2.2229	2.1778	2.1307
15	2.4753	2.4034	2.3275	2.2878	2.2468	2.2043	2.1601	2.1141	2.0658
16	2.4247	2.3522	2.2756	2.2354	2.1938	2.1507	2.1058	2.0589	2.0096
17	2.3807	2.3077	2.2304	2.1898	2.1477	2.1040	2.0584	2.0107	1.9604
18	2.3421	2.2686	2.1906	2.1497	2.1071	2.0629	2.0166	1.9681	1.9168
19	2.3080	2.2341	2.1555	2.1141	2.0712	2.0264	1.9795	1.9302	1.8780
20	2.2776	2.2033	2.1242	2.0825	2.0391	1.9938	1.9464	1.8963	1.8432
21	2.2504	2.1757	2.0960	2.0540	2.0102	1.9645	1.9165	1.8657	1.8117
22	2.2258	2.1508	2.0707	2.0283	1.9842	1.9380	1.8894	1.8380	1.7831
23	2.2036	2.1282	2.0476	2.0050	1.9605	1.9139	1.8648	1.8128	1.7570
24	2.1834	2.1077	2.0267	1.9838	1.9390	1.8920	1.8424	1.7896	1.7330
25	2.1649	2.0889	2.0075	1.9643	1.9192	1.8718	1.8217	1.7684	1.7110
26	2.1479	2.0716	1.9898	1.9464	1.9010	1.8533	1.8027	1.7488	1.6906
27	2.1323	2.0558	1.9736	1.9299	1.8842	1.8361	1.7851	1.7306	1.6717
28	2.1179	2.0411	1.9586	1.9147	1.8687	1.8203	1.7689	1.7138	1.6541
29	2.1045	2.0275	1.9446	1.9005	1.8543	1.8055	1.7537	1.6981	1.6376
30	2.0921	2.0148	1.9317	1.8874	1.8409	1.7918	1.7396	1.6835	1.6223
40	2.0035	1.9245	1.8389	1.7929	1.7444	1.6928	1.6373	1.5766	1.5089
60	1.9174	1.8364	1.7480	1.7001	1.6491	1.5943	1.5343	1.4673	1.3893
120	1.8337	1.7505	1.6587	1.6084	1.5543	1.4952	1.4290	1.3519	1.2539
∞	1.7522	1.6664	1.5705	1.5173	1.4591	1.3940	1.3180	1.2214	1.0000

تابع لجدول القيم الحرجة لإختبار (F):

درجات حرية البسط (df1) درجات حرية المقام (df2)

$$\alpha = 0.01$$

df2/df1	1	2	3	4	5	6	7	8	9	10
1	4052.181	4999.500	5403.352	5624.583	5763.650	5858.986	5928.356	5981.070	6022.473	6055.847
2	98.503	99.000	99.166	99.249	99.299	99.333	99.356	99.374	99.388	99.399
3	34.116	30.817	29.457	28.710	28.237	27.911	27.672	27.489	27.345	27.229
4	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	14.546
5	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	10.051
6	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874
7	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620
8	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814
9	10.561	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257
10	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849
11	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	4.539
12	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	4.296
13	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	4.100
14	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	3.939
15	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	3.805
16	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	3.691
17	8.400	6.112	5.185	4.669	4.336	4.102	3.927	3.791	3.682	3.593
18	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	3.508
19	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.523	3.434
20	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	3.368
21	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	3.310
22	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	3.258
23	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	3.211
24	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	3.168
25	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	3.129
26	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	3.094
27	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	3.062
28	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	3.032
29	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	3.005
30	7.562	5.390	4.510	4.018	3.699	3.473	3.304	3.173	3.067	2.979
40	7.314	5.179	4.313	3.828	3.514	3.291	3.124	2.993	2.888	2.801
60	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	2.632
120	6.851	4.787	3.949	3.480	3.174	2.956	2.792	2.663	2.559	2.472
∞	6.635	4.605	3.782	3.319	3.017	2.802	2.639	2.511	2.407	2.321

تابع لجدول القيم الحرجة لإختبار (F):

درجات حرية البسط (df1) درجات حرية المقام (df2)

$$\alpha = 0.01$$

df2/df1	12	15	20	24	30	40	60	120	∞
1	6106.321	6157.285	6208.730	6234.631	6260.649	6286.782	6313.030	6339.391	6365.864
2	99.416	99.433	99.449	99.458	99.466	99.474	99.482	99.491	99.499
3	27.052	26.872	26.690	26.598	26.505	26.411	26.316	26.221	26.125
4	14.374	14.198	14.020	13.929	13.838	13.745	13.652	13.558	13.463
5	9.888	9.722	9.553	9.466	9.379	9.291	9.202	9.112	9.020
6	7.718	7.559	7.396	7.313	7.229	7.143	7.057	6.969	6.880
7	6.469	6.314	6.155	6.074	5.992	5.908	5.824	5.737	5.650
8	5.667	5.515	5.359	5.279	5.198	5.116	5.032	4.946	4.859
9	5.111	4.962	4.808	4.729	4.649	4.567	4.483	4.398	4.311
10	4.706	4.558	4.405	4.327	4.247	4.165	4.082	3.996	3.909
11	4.397	4.251	4.099	4.021	3.941	3.860	3.776	3.690	3.602
12	4.155	4.010	3.858	3.780	3.701	3.619	3.535	3.449	3.361
13	3.815	3.665	3.587	3.507	3.425	3.341	3.255	3.165	3.165
14	3.800	3.656	3.505	3.427	3.348	3.266	3.181	3.094	3.004
15	3.666	3.522	3.372	3.294	3.214	3.132	3.047	2.959	2.868
16	3.553	3.409	3.259	3.181	3.101	3.018	2.933	2.845	2.753
17	3.455	3.312	3.162	3.084	3.003	2.920	2.835	2.746	2.653
18	3.371	3.227	3.077	2.999	2.919	2.835	2.749	2.660	2.566
19	3.297	3.153	3.003	2.925	2.844	2.761	2.674	2.584	2.489
20	3.231	3.088	2.938	2.859	2.778	2.695	2.608	2.517	2.421
21	3.173	3.030	2.880	2.801	2.720	2.636	2.548	2.457	2.360
22	3.121	2.978	2.827	2.749	2.667	2.583	2.495	2.403	2.305
23	3.074	2.931	2.781	2.702	2.620	2.535	2.447	2.354	2.256
24	3.032	2.889	2.738	2.659	2.577	2.492	2.403	2.310	2.211
25	2.993	2.850	2.699	2.620	2.538	2.453	2.364	2.270	2.169
26	2.958	2.815	2.664	2.585	2.503	2.417	2.327	2.233	2.131
27	2.926	2.783	2.632	2.552	2.470	2.384	2.294	2.198	2.097
28	2.896	2.753	2.602	2.522	2.440	2.354	2.263	2.167	2.064
29	2.868	2.726	2.574	2.495	2.412	2.325	2.234	2.138	2.034
30	2.843	2.700	2.549	2.469	2.386	2.299	2.208	2.111	2.006
40	2.665	2.522	2.369	2.288	2.203	2.114	2.019	1.917	1.805
60	2.496	2.352	2.198	2.115	2.028	1.936	1.836	1.726	1.601
120	2.336	2.192	2.035	1.950	1.860	1.763	1.656	1.533	1.381
∞	2.185	2.039	1.878	1.791	1.696	1.592	1.473	1.325	1.000

جدول القيم الحرجة لمعامل الارتباط بيرسون:

df	One-tailed test (طرف واحد)		Two-tailed Test (طرفين)	
	0.05	0.01	0.05	0.01
1	0.988	1.000	0.997	1.000
2	0.900	0.980	0.950	0.990
3	0.805	0.934	0.878	0.959
4	0.729	0.882	0.811	0.917
5	0.669	0.833	0.754	0.875
6	0.621	0.789	0.707	0.834
7	0.582	0.750	0.666	0.798
8	0.549	0.715	0.632	0.765
9	0.521	0.685	0.602	0.735
10	0.497	0.658	0.576	0.708
11	0.476	0.634	0.553	0.684
12	0.458	0.612	0.532	0.661
13	0.441	0.592	0.514	0.641
14	0.426	0.574	0.497	0.623
15	0.412	0.558	0.482	0.606
16	0.400	0.543	0.468	0.590
17	0.389	0.529	0.456	0.575
18	0.378	0.516	0.444	0.561
19	0.369	0.503	0.433	0.549
20	0.360	0.492	0.423	0.537
21	0.352	0.482	0.413	0.526
22	0.344	0.472	0.404	0.515
23	0.337	0.462	0.396	0.505
24	0.330	0.453	0.388	0.496
25	0.323	0.445	0.381	0.487
26	0.317	0.437	0.374	0.479
27	0.311	0.430	0.367	0.471
28	0.306	0.423	0.361	0.463
29	0.301	0.416	0.355	0.456
30	0.296	0.409	0.349	0.449
40	0.257	0.358	0.304	0.393
50	0.231	0.322	0.273	0.354
60	0.211	0.295	0.250	0.325
80	0.183	0.257	0.217	0.283
100	0.164	0.230	0.195	0.254
120	0.150	0.210	0.178	0.232

جدول القيم الحرجة لمعامل الارتباط سييرمان:

N	One-tailed test (طرف واحد)		Two-tailed Test (طرفين)		N	One-tailed test (طرف واحد)		Two-tailed Test (طرفين)	
	0.05	0.01	0.05	0.01		0.05	0.01	0.05	0.01
4	1.000	-	-	-	33	0.291	0.405	0.345	0.446
5	0.900	1.000	1.000	-	34	0.287	0.400	0.340	0.439
6	0.829	0.943	0.886	1.000	35	0.283	0.394	0.335	0.433
7	0.714	0.893	0.786	0.929	36	0.279	0.388	0.330	0.427
8	0.643	0.833	0.738	0.881	37	0.275	0.383	0.325	0.421
9	0.600	0.783	0.700	0.833	38	0.271	0.378	0.321	0.415
10	0.564	0.745	0.648	0.794	39	0.267	0.373	0.317	0.410
11	0.536	0.709	0.618	0.755	40	0.264	0.368	0.313	0.405
12	0.503	0.678	0.587	0.727	41	0.261	0.364	0.309	0.400
13	0.484	0.648	0.560	0.703	42	0.257	0.359	0.305	0.396
14	0.464	0.626	0.538	0.679	43	0.254	0.355	0.301	0.391
15	0.446	0.604	0.521	0.654	44	0.251	0.351	0.298	0.386
16	0.429	0.582	0.503	0.635	45	0.248	0.347	0.294	0.382
17	0.414	0.566	0.488	0.618	46	0.246	0.343	0.291	0.378
18	0.401	0.550	0.472	0.600	47	0.243	0.340	0.288	0.374
19	0.391	0.535	0.460	0.584	48	0.240	0.336	0.285	0.370
20	0.380	0.522	0.447	0.570	49	0.238	0.333	0.282	0.366
21	0.370	0.509	0.436	0.556	50	0.235	0.329	0.279	0.363
22	0.361	0.497	0.425	0.544	51	0.233	0.326	0.276	0.359
23	0.353	0.486	0.416	0.532	52	0.231	0.323	0.274	0.356
24	0.344	0.476	0.407	0.521	53	0.228	0.320	0.271	0.352
25	0.337	0.466	0.398	0.511	54	0.226	0.317	0.268	0.349
26	0.331	0.457	0.390	0.501	55	0.224	0.314	0.266	0.346
27	0.324	0.449	0.383	0.492	56	0.222	0.311	0.264	0.343
28	0.318	0.441	0.375	0.483	57	0.220	0.308	0.261	0.340
29	0.312	0.433	0.368	0.475	58	0.218	0.306	0.259	0.337
30	0.306	0.425	0.362	0.467	59	0.216	0.303	0.257	0.334
31	0.301	0.419	0.356	0.459	60	0.214	0.301	0.255	0.331
32	0.296	0.412	0.350	0.452					