

الجدول الإحصائية

جدول كا²

درجة الحرية			
	0.05	0.01	0.001
1	3.84	6.64	10.83
2	5.99	9.21	13.82
3	7.82	11.35	16.27
4	9.49	13.28	18.47
5	11.07	15.09	20.52
6	12.59	16.81	22.46
7	14.07	18.48	24.32
8	15.51	20.09	26.13
9	16.92	21.67	27.88
10	18.31	23.21	29.59
11	19.68	24.73	31.26
12	21.03	26.22	32.91
13	22.36	27.69	34.53
14	23.69	29.14	36.12
15	25.00	30.58	37.70
16	26.30	32.00	39.25
17	27.59	33.41	40.79
18	28.87	34.81	42.31
19	30.14	36.19	43.82
20	31.41	37.57	45.32
21	32.67	38.93	46.80
22	33.92	40.29	48.27
23	35.17	41.64	49.73
24	36.42	42.98	51.18
25	37.65	44.31	52.62
26	38.89	45.64	54.05

27	40.11	46.96	55.48
28	41.34	48.28	56.89
29	42.56	49.59	58.30
30	43.77	50.89	59.70
31	44.99	52.19	61.10
32	46.19	53.49	62.49
33	47.40	54.78	63.87
34	48.60	56.06	65.25
35	49.80	57.34	66.62
36	51.00	58.62	67.99
37	52.19	59.89	69.35
38	53.38	61.16	70.71
39	54.57	62.43	72.06
40	55.76	63.69	73.41
41	56.94	64.95	74.75
42	58.12	66.21	76.09
43	59.30	67.46	77.42
44	60.48	68.71	78.75
45	61.66	69.96	80.08
46	62.83	71.20	81.40
47	64.00	72.44	82.72
48	65.17	73.68	84.03
49	66.34	74.92	85.35
50	67.51	76.15	86.66
51	68.67	77.39	87.97
52	69.83	78.62	89.27
53	70.99	79.84	90.57
54	72.15	81.07	91.88
55	73.31	82.29	93.17
56	74.47	83.52	94.47
57	75.62	84.73	95.75
58	76.78	85.95	97.03

59	77.93	87.17	98.34
60	79.08	88.38	99.62
61	80.23	89.59	100.88
62	81.38	90.80	102.15
63	82.53	92.01	103.46
64	83.68	93.22	104.72
65	84.82	94.42	105.97
66	85.97	95.63	107.26
67	87.11	96.83	108.54
68	88.25	98.03	109.79
69	89.39	99.23	111.06
70	90.53	100.42	112.31
71	91.67	101.62	113.56
72	92.81	102.82	114.84
73	93.95	104.01	116.08
74	95.08	105.20	117.35
75	96.22	106.39	118.60
76	97.35	107.58	119.85
77	98.49	108.77	121.11
78	99.62	109.96	122.36
79	100.75	111.15	123.60
80	101.88	112.33	124.84
81	103.01	113.51	126.09
82	104.14	114.70	127.33
83	105.27	115.88	128.57
84	106.40	117.06	129.80
85	107.52	118.24	131.04
86	108.65	119.41	132.28
87	109.77	120.59	133.51
88	110.90	121.77	134.74
89	112.02	122.94	135.96
90	113.15	124.12	137.19

91	114.27	125.29	138.45
92	115.39	126.46	139.66
93	116.51	127.63	140.90
94	117.63	128.80	142.12
95	118.75	129.97	143.32
96	119.87	131.14	144.55
97	120.99	132.31	145.78
98	122.11	133.47	146.99
99	123.23	134.64	148.21
100	124.34	135.81	149

جدول ت

درجة الحرية								
	0.1	0.05	0.01	0.005	0.001	0.0005	0.0001	0.00005
طرفين	0.2	0.1	0.05	0.01	0.005	0.001	0.0005	0.0001
2	1.89	2.92	4.30	9.92	14.09	31.60	44.70	100.14
3	1.64	2.35	3.18	5.84	7.45	12.92	16.33	28.01
4	1.53	2.13	2.78	4.60	5.60	8.61	10.31	15.53
5	1.48	2.02	2.57	4.03	4.77	6.87	7.98	11.18
6	1.44	1.94	2.45	3.71	4.32	5.96	6.79	9.08
7	1.41	1.89	2.36	3.50	4.03	5.41	6.08	7.89
8	1.40	1.86	2.31	3.36	3.83	5.04	5.62	7.12
9	1.38	1.83	2.26	3.25	3.69	4.78	5.29	6.59
10	1.37	1.81	2.23	3.17	3.58	4.59	5.05	6.21
11	1.36	1.80	2.20	3.11	3.50	4.44	4.86	5.92
12	1.36	1.78	2.18	3.05	3.43	4.32	4.72	5.70
13	1.35	1.77	2.16	3.01	3.37	4.22	4.60	5.51
14	1.35	1.76	2.14	2.98	3.33	4.14	4.50	5.36
15	1.34	1.75	2.13	2.95	3.29	4.07	4.42	5.24
16	1.34	1.75	2.12	2.92	3.25	4.01	4.35	5.13
17	1.33	1.74	2.11	2.90	3.22	3.97	4.29	5.04

18	1.33	1.73	2.10	2.88	3.20	3.92	4.23	4.97
19	1.33	1.73	2.09	2.86	3.17	3.88	4.19	4.90
20	1.33	1.72	2.09	2.85	3.15	3.85	4.15	4.84
21	1.32	1.72	2.08	2.83	3.14	3.82	4.11	4.78
22	1.32	1.72	2.07	2.82	3.12	3.79	4.08	4.74
23	1.32	1.71	2.07	2.81	3.10	3.77	4.05	4.69
24	1.32	1.71	2.06	2.80	3.09	3.75	4.02	4.65
25	1.32	1.71	2.06	2.79	3.08	3.73	4.00	4.62
26	1.31	1.71	2.06	2.78	3.07	3.71	3.97	4.59
27	1.31	1.70	2.05	2.77	3.06	3.69	3.95	4.56
28	1.31	1.70	2.05	2.76	3.05	3.67	3.93	4.53
29	1.31	1.70	2.05	2.76	3.04	3.66	3.92	4.51
30	1.31	1.70	2.04	2.75	3.03	3.65	3.90	4.48
35	1.31	1.69	2.03	2.72	3.00	3.59	3.84	4.39
40	1.30	1.68	2.02	2.70	2.97	3.55	3.79	4.32
45	1.30	1.68	2.01	2.69	2.95	3.52	3.75	4.27
50	1.30	1.68	2.01	2.68	2.94	3.50	3.72	4.23
55	1.30	1.67	2.00	2.67	2.92	3.48	3.70	4.20
60	1.30	1.67	2.00	2.66	2.91	3.46	3.68	4.17
65	1.29	1.67	2.00	2.65	2.91	3.45	3.66	4.15
70	1.29	1.67	1.99	2.65	2.90	3.43	3.65	4.13
75	1.29	1.67	1.99	2.64	2.89	3.42	3.64	4.11
80	1.29	1.66	1.99	2.64	2.89	3.42	3.63	4.10
85	1.29	1.66	1.99	2.63	2.88	3.41	3.62	4.08
90	1.29	1.66	1.99	2.63	2.88	3.40	3.61	4.07
95	1.29	1.66	1.99	2.63	2.87	3.40	3.60	4.06
100	1.29	1.66	1.98	2.63	2.87	3.39	3.60	4.05
200	1.29	1.65	1.97	2.60	2.84	3.34	3.54	3.97
500	1.28	1.65	1.96	2.59	2.82	3.31	3.50	3.92
1000	1.28	1.65	1.96	2.58	2.81	3.30	3.49	3.91
	1.28	1.64	1.96	2.58	2.81	3.29	3.48	3.89

جدول ف

حرية التبائن الصغير	درجة حرية التبائن الكبير								
	1	2	3	4	5	6	8	12	ن
1	161	200	216	225	230	234	239	244	254
2	18.5	19.0	19.2	19.3	19.3	19.3	19.4	19.4	19.5
3	10.1	9.6	9.3	9.1	9.0	8.9	8.8	8.7	8.5
4	7.7	6.9	6.6	6.4	6.3	6.2	6.0	5.9	5.6
5	6.6	5.8	5.4	5.2	5.1	5.0	4.8	4.7	4.4
6	6.0	5.1	4.8	4.5	4.4	4.3	4.2	4.0	3.7
7	5.6	4.7	4.4	4.1	4.0	3.9	3.7	3.6	3.2
8	5.3	4.5	4.1	3.8	3.7	3.6	3.4	3.3	2.9
9	5.1	4.3	3.9	3.6	3.5	3.4	3.2	3.1	2.7
10	5.0	4.1	3.7	3.5	3.3	3.2	3.1	2.9	2.5
11	4.8	4.0	3.6	3.4	3.2	3.1	3.0	2.8	2.4
12	4.8	3.9	3.5	3.3	3.1	3.0	2.9	2.7	2.3
13	4.7	3.8	3.4	3.2	3.0	2.9	2.8	2.6	2.2
14	4.6	3.7	3.3	3.1	3.0	2.9	2.7	2.5	2.1
15	4.5	3.7	3.3	3.1	2.9	2.8	2.6	2.5	2.1
16	4.5	3.6	3.2	3.0	2.9	2.7	2.6	2.4	2.0
17	4.5	3.6	3.2	3.0	2.8	2.7	2.6	2.4	2.0
18	4.4	3.6	3.2	2.9	2.8	2.7	2.5	2.3	1.9
19	4.4	3.5	3.1	2.9	2.7	2.6	2.5	2.3	1.9
20	4.4	3.5	3.1	2.9	2.7	2.6	2.5	2.3	1.8
21	4.3	3.5	3.1	2.8	2.7	2.6	2.4	2.3	1.8
22	4.3	3.4	3.1	2.8	2.7	2.6	2.4	2.2	1.8
23	4.3	3.4	3.0	2.8	2.6	2.5	2.4	2.2	1.8
24	4.3	3.4	3.0	2.8	2.6	2.5	2.4	2.2	1.7
25	4.2	3.4	3.0	2.8	2.6	2.5	2.3	2.2	1.7
26	4.2	3.4	3.0	2.7	2.6	2.5	2.3	2.2	1.7
27	4.2	3.4	3.0	2.7	2.6	2.5	2.3	2.1	1.7
28	4.2	3.3	3.0	2.7	2.6	2.4	2.3	2.1	1.7
29	4.2	3.3	2.9	2.7	2.5	2.4	2.3	2.1	1.6

30	4.2	3.3	2.9	2.7	2.5	2.4	2.3	2.1	1.6
40	4.1	3.2	2.8	2.6	2.5	2.3	2.2	2.0	1.5
60	4.0	3.2	2.8	2.5	2.4	2.3	2.1	1.9	1.4
120	3.9	3.1	2.7	2.5	2.3	2.2	2.0	1.8	1.3
ع	3.8	3.0	2.6	2.4	2.2	2.1	1.9	1.8	1.0