



DEPARTAMENTO DE EDUCACIÓN

FACULTAD DE EDUCACIÓN
MÉTODOS DE INVESTIGACIÓN Y DIAGNÓSTICO EN EDUCACIÓN
Edificio Interfacultativo Tfno: (942) 201281. Fax : (942) 201173
Avda. de los Castros s/n
39005 - Santander
e-mail: laurentino.salvador@unican.es

ASIGNATURA:

«MÉTODOS EN PSICOLOGÍA»

Tablas

Laurentino SALVADOR BLANCO

TABLA 2.-ORDENADAS DE LA CURVA NORMAL TIPIFICADA DE 0 A Z

z	0	1	2	3	4	5	6	7	8	9
0,0	0,3989	0,3989	0,3989	0,3989	0,3986	0,3984	0,3982	0,3980	0,3977	0,3973
0,1	0,3970	0,3965	0,3961	0,3956	0,3951	0,3945	0,3939	0,3932	0,3925	0,3918
0,2	0,3910	0,3902	0,3885	0,3885	0,3876	0,3867	0,3857	0,3847	0,3836	0,3825
0,3	0,3814	0,3802	0,3790	0,3778	0,3765	0,3752	0,3739	0,3725	0,3712	0,3697
0,4	0,3683	0,3668	0,3653	0,3637	0,3621	0,3605	0,3589	0,3572	0,3555	0,3538
0,5	0,3521	0,3503	0,3485	0,3467	0,3448	0,3429	0,3410	0,3391	0,3372	0,3352
0,6	0,3332	0,3312	0,3292	0,3271	0,3251	0,3230	0,3209	0,3187	0,3166	0,3144
0,7	0,3123	0,3101	0,3079	0,3056	0,3034	0,3011	0,2989	0,2966	0,2943	0,2920
0,8	0,2897	0,2874	0,2850	0,2827	0,2803	0,2780	0,2756	0,2732	0,2709	0,2685
0,9	0,2661	0,2637	0,2613	0,2589	0,2565	0,2541	0,2516	0,2492	0,2468	0,2444
1,0	0,2420	0,2396	0,2371	0,2347	0,2323	0,2299	0,2275	0,2251	0,2227	0,2203
1,1	0,2179	0,2155	0,2131	0,2107	0,2083	0,2059	0,2036	0,2012	0,1989	0,1965
1,2	0,1942	0,1919	0,1895	0,1872	0,1849	0,1826	0,1804	0,1781	0,1758	0,1736
1,3	0,1714	0,1691	0,1669	0,1647	0,1626	0,1604	0,1582	0,1561	0,1539	0,1518
1,4	0,1497	0,1476	0,1456	0,1435	0,1415	0,1394	0,1374	0,1354	0,1334	0,1315
1,5	0,1295	0,1276	0,1257	0,1238	0,1219	0,1200	0,1182	0,1163	0,1145	0,1127
1,6	0,1109	0,1092	0,1074	0,1057	0,1040	0,1023	0,1006	0,0989	0,0973	0,0957
1,7	0,0940	0,0925	0,0909	0,0893	0,0878	0,0863	0,0848	0,0833	0,0818	0,0804
1,8	0,0790	0,0775	0,0761	0,0748	0,0734	0,0721	0,0707	0,0694	0,0681	0,0669
1,9	0,0656	0,0644	0,0632	0,0620	0,0608	0,0596	0,0584	0,0573	0,0562	0,0551
2,0	0,0540	0,0529	0,0519	0,0508	0,0498	0,0488	0,0478	0,0468	0,0459	0,0449
2,1	0,0440	0,0431	0,0422	0,0413	0,0404	0,0396	0,0387	0,0379	0,0371	0,0363
2,2	0,0355	0,0347	0,0339	0,0332	0,0325	0,0317	0,0310	0,0303	0,0297	0,0290
2,3	0,0283	0,0277	0,0270	0,0264	0,0258	0,0252	0,0246	0,0241	0,0235	0,0229
2,4	0,0224	0,0219	0,0213	0,0208	0,0203	0,0198	0,0194	0,0189	0,0184	0,0180
2,5	0,0175	0,0171	0,0167	0,0163	0,0158	0,0154	0,0151	0,0147	0,0143	0,0139
2,6	0,0136	0,0132	0,0129	0,0126	0,0122	0,0119	0,0116	0,0113	0,0110	0,0107
2,7	0,0104	0,0101	0,0099	0,0096	0,0093	0,0091	0,0088	0,0086	0,0084	0,0081
2,8	0,0079	0,0077	0,0075	0,0073	0,0071	0,0069	0,0067	0,0065	0,0063	0,0061
2,9	0,0060	0,0058	0,0056	0,0055	0,0053	0,0051	0,0050	0,0048	0,0047	0,0046
3,0	0,0044	0,0043	0,0042	0,0040	0,0039	0,0038	0,0037	0,0036	0,0035	0,0034
3,1	0,0033	0,0032	0,0031	0,0030	0,0029	0,0028	0,0027	0,0026	0,0025	0,0025
3,2	0,0024	0,0023	0,0022	0,0022	0,0021	0,0020	0,0020	0,0019	0,0018	0,0018
3,3	0,0017	0,0017	0,0016	0,0016	0,0015	0,0015	0,0014	0,0014	0,0013	0,0013
3,4	0,0012	0,0012	0,0012	0,0011	0,0011	0,0010	0,0010	0,0010	0,0009	0,0009
3,5	0,0009	0,0008	0,0008	0,0008	0,0008	0,0007	0,0007	0,0007	0,0007	0,0006
3,6	0,0006	0,0006	0,0006	0,0005	0,0005	0,0005	0,0005	0,0005	0,0005	0,0004
3,7	0,0004	0,0004	0,0004	0,0004	0,0004	0,0004	0,0003	0,0003	0,0003	0,0003
3,8	0,0003	0,0003	0,0003	0,0003	0,0003	0,0002	0,0002	0,0002	0,0002	0,0002
3,9	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0001	0,0001

TABLA 3.- CORRESPONDENCIA ENTRE PUNTUACIONES

CENTIL	NOTA z	NOTA T	CI	CENTIL	NOTA z	NOTA T	CI
1	- 2.327	27	65	51	0.025	50	100
2	- 2.054	29	69	52	0.050	51	101
3	- 1.881	31	72	53	0.075	51	101
4	- 1.751	32	74	54	0.100	51	101
5	- 1.645	34	75	55	0.126	51	102
6	- 1.555	34	77	56	0.151	52	102
7	- 1.476	35	78	57	0.176	52	103
8	- 1.405	36	79	58	0.202	52	103
9	- 1.340	37	80	59	0.227	52	103
10	- 1.282	37	81	60	0.253	53	104
11	- 1.226	38	82	61	0.279	53	104
12	- 1.175	38	82	62	0.306	53	105
13	- 1.126	39	83	63	0.332	53	105
14	- 1.080	39	84	64	0.358	54	105
15	- 1.037	40	84	65	0.385	54	106
16	- 0.995	40	85	66	0.412	54	106
17	- 0.954	40	86	67	0.440	54	107
18	- 0.915	41	86	68	0.468	55	107
19	- 0.878	41	87	69	0.496	55	107
20	- 0.842	42	87	70	0.524	55	108
21	- 0.807	42	88	71	0.553	56	108
22	- 0.772	42	88	72	0.583	56	109
23	- 0.739	43	89	73	0.613	56	109
24	- 0.706	43	89	74	0.643	56	110
25	- 0.674	43	90	75	0.674	57	110
26	- 0.643	44	91	76	0.706	57	111
27	- 0.613	44	91	77	0.739	57	111
28	- 0.583	44	91	78	0.772	58	112
29	- 0.553	44	92	79	0.807	58	112
30	- 0.524	45	92	80	0.842	58	113
31	- 0.496	45	93	81	0.878	59	113
32	- 0.468	45	93	82	0.915	59	114
33	- 0.440	46	93	83	0.954	60	114
34	- 0.412	46	94	84	0.995	60	115
35	- 0.385	46	94	85	1.037	60	116
36	- 0.353	46	95	86	1.080	61	116
37	- 0.332	47	95	87	1.126	61	117
38	- 0.306	47	95	88	1.175	62	118
39	- 0.279	47	96	89	1.226	62	118
40	- 0.253	47	96	90	1.282	63	119
41	- 0.227	48	97	91	1.340	63	120
42	- 0.202	48	97	92	1.405	64	121
43	- 0.176	48	97	93	1.476	65	122
44	- 0.151	48	98	94	1.555	66	123
45	- 0.136	49	98	95	1.645	66	125
46	- 0.100	49	99	96	1.751	68	126
47	- 0.075	49	99	97	1.881	69	128
48	- 0.050	50	99	98	2.054	71	131
49	- 0.025	50	100	99	2.327	73	135
50	- 0.000	50	100				

TABLA 4.-VALORES CRÍTICOS DE LA ASIMETRÍA EN MUESTRAS NORMALES

Valores Críticos del Coeficiente de Asimetría $g_1 = \pm \sqrt{b_1}$ en Muestras Normales

La tabla proporciona aquellos valores g_{1c} para los cuales es $\alpha = P(|g_1| \geq g_{1c})$

n	$\alpha = 5\%$		$\alpha = 1\%$		n	$\alpha = 5\%$		$\alpha = 1\%$		n	$\alpha = 5\%$		$\alpha = 1\%$	
	0.5	1.0	0.5	1.0		0.5	1.0	0.5	1.0		0.5	1.0	0.5	1.0
1														
2	0.000	0.000	1.107	1.107	31	0.796	1.107	61	0.592	0.810	91	0.491	0.663	0.663
3	0.705	0.707	1.091	1.091	32	0.785	1.091	62	0.587	0.803	92	0.488	0.663	0.663
4	1.070	1.137	1.077	1.077	33	0.775	1.077	63	0.583	0.797	93	0.486	0.659	0.659
5	1.207	1.396	1.062	1.062	34	0.765	1.062	64	0.579	0.791	94	0.483	0.656	0.656
6	1.239	1.531	1.048	1.048	35	0.755	1.048	65	0.574	0.785	95	0.481	0.653	0.653
7	1.230	1.589	1.034	1.034	36	0.746	1.034	66	0.570	0.780	96	0.479	0.649	0.649
8	1.208	1.605	1.021	1.021	37	0.737	1.021	67	0.566	0.774	97	0.476	0.646	0.646
9	1.184	1.598	1.008	1.008	38	0.729	1.008	68	0.563	0.768	98	0.474	0.643	0.643
10	1.159	1.578	0.996	0.996	39	0.720	0.996	69	0.559	0.763	99	0.472	0.639	0.639
11	1.134	1.553	0.985	0.985	40	0.713	0.985	70	0.555	0.758	100	0.470	0.636	0.636
12	1.109	1.526	0.974	0.974	41	0.705	0.974	71	0.551	0.752	200	0.339	0.452	0.452
13	1.085	1.497	0.963	0.963	42	0.698	0.963	72	0.548	0.747	300	0.276	0.367	0.367
14	1.061	1.468	0.952	0.952	43	0.691	0.952	73	0.544	0.742	400	0.238	0.316	0.316
15	1.039	1.440	0.942	0.942	44	0.684	0.942	74	0.541	0.737	500	0.212	0.282	0.282
16	1.018	1.412	0.933	0.933	45	0.677	0.933	75	0.537	0.733	600	0.194	0.257	0.257
17	0.997	1.385	0.923	0.923	46	0.671	0.923	76	0.534	0.728	700	0.180	0.238	0.238
18	0.978	1.359	0.914	0.914	47	0.665	0.914	77	0.531	0.723	800	0.169	0.224	0.224
19	0.960	1.334	0.906	0.906	48	0.659	0.906	78	0.528	0.719	900	0.160	0.212	0.212
20	0.942	1.310	0.897	0.897	49	0.653	0.897	79	0.524	0.714	1000	0.153	0.203	0.203
21	0.925	1.287	0.889	0.889	50	0.647	0.889	80	0.521	0.710	∞	0.000	0.000	0.000
22	0.909	1.265	0.881	0.881	51	0.641	0.881	81	0.518	0.706				
23	0.894	1.243	0.873	0.873	52	0.636	0.873	82	0.515	0.701				
24	0.880	1.223	0.865	0.865	53	0.630	0.865	83	0.512	0.697				
25	0.866	1.203	0.858	0.858	54	0.625	0.858	84	0.510	0.693				
26	0.849	1.185	0.850	0.850	55	0.620	0.850	85	0.507	0.689				
27	0.838	1.167	0.843	0.843	56	0.615	0.843	86	0.504	0.685				
28	0.827	1.152	0.836	0.836	57	0.610	0.836	87	0.501	0.681				
29	0.817	1.137	0.829	0.829	58	0.605	0.829	88	0.499	0.677				
30	0.806	1.122	0.823	0.823	59	0.601	0.823	89	0.496	0.674				
			0.816	0.816	60	0.596	0.816	90	0.493	0.670				

Para $n > 25$ se ha obtenido por simulación y suavizado con 200.000 réplicas. (Cátedra de Estadística e I.O., Depto. de Matemática Pura y Aplicada, Univ. de Salamanca, 1992).

TABLA 5a.-VALORES CRÍTICOS DE LA CURTOSIS EN MUESTRAS NORMALES

Valores Críticos de la Curtosis en Muestras Normales

La tabla contiene aquellos límites para los cuales es $\alpha = P(g_2 \leq \text{INF} \text{ o } g_2 \geq \text{SUP})$

n	$\alpha = 5 \%$		$\alpha = 1 \%$		n	$\alpha = 5 \%$		$\alpha = 1 \%$	
	INF	SUP	INF	SUP		INF	SUP	INF	SUP
1	-----	-----	-----	-----	36	-1.056	1.502	-1.209	2.579
2	-2.000	-2.000	-2.000	-2.000	37	-1.040	1.470	-1.193	2.544
3	-1.500	-1.500	-1.500	-1.500	38	-1.032	1.470	-1.184	2.514
4	-1.934	-0.701	-1.986	-0.673	39	-1.024	1.461	-1.174	2.512
5	-1.757	0.003	-1.804	0.162	40	-1.011	1.463	-1.167	2.472
6	-1.715	0.520	-1.862	0.879	41	-1.007	1.454	-1.160	2.472
7	-1.666	0.882	-1.786	1.450	42	-0.997	1.454	-1.147	2.536
8	-1.610	1.104	-1.734	1.870	43	-0.993	1.406	-1.142	2.386
9	-1.562	1.288	-1.706	2.195	44	-0.979	1.410	-1.132	2.387
10	-1.526	1.411	-1.662	2.419	45	-0.976	1.433	-1.125	2.470
11	-1.490	1.480	-1.627	2.592	46	-0.969	1.410	-1.121	2.411
12	-1.456	1.544	-1.600	2.704	47	-0.959	1.381	-1.108	2.303
13	-1.423	1.589	-1.572	2.829	48	-0.954	1.383	-1.102	2.308
14	-1.394	1.633	-1.541	2.864	49	-0.948	1.349	-1.100	2.288
15	-1.366	1.630	-1.517	2.900	50	-0.936	1.353	-1.091	2.266
16	-1.343	1.646	-1.494	2.911	51	-0.935	1.359	-1.087	2.305
17	-1.322	1.656	-1.468	2.882	52	-0.929	1.345	-1.075	2.264
18	-1.302	1.643	-1.453	2.896	53	-0.921	1.291	-1.071	2.222
19	-1.282	1.669	-1.430	2.946	54	-0.916	1.326	-1.060	2.261
20	-1.260	1.671	-1.411	2.953	55	-0.909	1.314	-1.057	2.197
21	-1.245	1.659	-1.397	2.910	56	-0.902	1.311	-1.049	2.222
22	-1.224	1.634	-1.376	2.926	57	-0.901	1.267	-1.045	2.114
23	-1.209	1.629	-1.357	2.893	58	-0.893	1.310	-1.044	2.169
24	-1.194	1.620	-1.348	2.895	59	-0.889	1.273	-1.035	2.127
25	-1.175	1.614	-1.329	2.819	60	-0.886	1.286	-1.031	2.169
26	-1.165	1.592	-1.321	2.797	61	-0.880	1.271	-1.028	2.119
27	-1.155	1.609	-1.303	2.799	62	-0.872	1.246	-1.019	2.064
28	-1.142	1.570	-1.294	2.752	63	-0.866	1.249	-1.015	2.104
29	-1.123	1.589	-1.278	2.780	64	-0.865	1.243	-1.012	2.136
30	-1.111	1.576	-1.264	2.768	65	-0.855	1.221	-1.001	2.023
31	-1.101	1.584	-1.254	2.777	66	-0.853	1.235	-0.997	2.067
32	-1.092	1.552	-1.248	2.665	67	-0.844	1.219	-0.992	2.008
33	-1.081	1.549	-1.233	2.674	68	-0.843	1.213	-0.991	2.017
34	-1.070	1.521	-1.223	2.580	69	-0.836	1.191	-0.974	1.967
35	-1.060	1.503	-1.215	2.624	70	-0.835	1.202	-0.982	1.995

(Continúa)

TABLA 5b.-VALORES CRÍTICOS DE LA CURTOSIS EN MUESTRAS NORMALES

Valores Críticos de la Curtosis en Muestras Normales (Continuación)

La tabla contiene aquellos límites para los cuales es $\alpha = P(g_2 \leq \text{INF} \text{ o } g_2 \geq \text{SUP})$

n	$\alpha = 5 \%$		$\alpha = 1 \%$		n	$\alpha = 5 \%$		$\alpha = 1 \%$	
	INF	SUP	INF	SUP		INF	SUP	INF	SUP
71	-0.829	1.185	-0.976	1.953	91	-0.757	1.062	-0.896	1.753
72	-0.827	1.192	-0.969	1.985	92	-0.759	1.063	-0.897	1.709
73	-0.823	1.179	-0.967	1.937	93	-0.752	1.082	-0.888	1.734
74	-0.819	1.194	-0.962	1.943	94	-0.751	1.058	-0.888	1.704
75	-0.814	1.164	-0.956	1.889	95	-0.746	1.062	-0.885	1.703
76	-0.814	1.149	-0.955	1.911	96	-0.745	1.042	-0.881	1.698
77	-0.808	1.138	-0.942	1.863	97	-0.742	1.040	-0.877	1.680
78	-0.803	1.152	-0.947	1.875	98	-0.734	1.052	-0.873	1.679
79	-0.799	1.143	-0.946	1.877	99	-0.732	1.043	-0.869	1.662
80	-0.795	1.146	-0.938	1.870	100	-0.734	1.032	-0.873	1.653
81	-0.791	1.111	-0.931	1.849	200	-0.558	0.748	-0.680	1.151
82	-0.786	1.131	-0.924	1.835	300	-0.470	0.613	-0.574	0.919
83	-0.782	1.115	-0.923	1.798	400	-0.415	0.523	-0.512	0.773
84	-0.782	1.105	-0.923	1.788	500	-0.378	0.471	-0.467	0.687
85	-0.777	1.114	-0.916	1.840	600	-0.347	0.418	-0.430	0.608
86	-0.770	1.101	-0.910	1.781	700	-0.325	0.391	-0.405	0.560
87	-0.774	1.104	-0.913	1.819	800	-0.306	0.365	-0.383	0.526
88	-0.767	1.081	-0.908	1.763	900	-0.289	0.343	-0.364	0.487
89	-0.764	1.087	-0.898	1.742	1000	-0.277	0.325	-0.345	0.456
90	-0.764	1.075	-0.903	1.746	∞	0.000	0.000	0.000	0.000

Valores obtenidos por simulación con 100.000 réplicas

(Cátedra de Estadística e I.O., Depto. de Matemática Pura y Aplicada, Univ. de Salamanca, 1992)

TABLA 6.-VALORES CRÍTICOS DE t

Nivel de significación para pruebas de una cola						
	.10	.05	.025	.01	.005	.0005
Nivel de significación para pruebas de dos colas						
df	.20	.10	.05	.02	.01	.001
1	3.078	6.314	12.706	31.821	63.657	636.619
2	1.886	2.920	4.303	6.965	9.925	31.598
3	1.638	2.353	3.182	4.541	5.841	12.941
4	1.533	2.132	2.776	3.747	4.604	8.610
5	1.476	2.015	2.571	3.365	4.032	6.859
6	1.440	1.943	2.447	3.143	3.707	5.959
7	1.415	1.895	2.365	2.998	3.499	5.405
8	1.397	1.860	2.306	2.896	3.355	5.041
9	1.383	1.833	2.262	2.821	3.250	4.781
10	1.372	1.812	2.228	2.764	3.169	4.587
11	1.363	1.796	2.201	2.718	3.106	4.437
12	1.356	1.782	2.179	2.681	3.055	4.318
13	1.350	1.771	2.160	2.650	3.012	4.221
14	1.345	1.761	2.145	2.624	2.977	4.140
15	1.341	1.753	2.131	2.602	2.947	4.073
16	1.337	1.746	2.120	2.583	2.921	4.015
17	1.333	1.740	2.110	2.567	2.898	3.965
18	1.330	1.734	2.101	2.552	2.878	3.922
19	1.328	1.729	2.093	2.539	2.861	3.883
20	1.325	1.725	2.086	2.528	2.845	3.850
21	1.323	1.721	2.080	2.518	2.831	3.819
22	1.321	1.717	2.074	2.508	2.819	3.792
23	1.319	1.714	2.069	2.500	2.807	3.767
24	1.318	1.711	2.064	2.492	2.797	3.745
25	1.316	1.708	2.060	2.485	2.787	3.725
26	1.315	1.706	2.056	2.479	2.779	3.707
27	1.314	1.703	2.052	2.473	2.771	3.690
28	1.313	1.701	2.048	2.467	2.763	3.674
29	1.311	1.699	2.045	2.462	2.756	3.659
30	1.310	1.697	2.042	2.457	2.750	3.646
40	1.303	1.684	2.021	2.423	2.704	3.551
60	1.296	1.671	2.000	2.390	2.660	3.460
120	1.289	1.658	1.980	2.358	2.617	3.373
∞	1.282	1.645	1.960	2.326	2.576	3.291

Fuente: R. A. Fisher y F. Yates, *Statistical tables for biological, agricultural, and medical research*, Oliver & Boyd, Ltd., Edimburgo.

TABLA 7.-VALORES CRÍTICOS DE CHI CUADRADO

DISTRIBUCION χ^2 PARA DISTINTOS NIVELES α

α	.99	.98	.95	.90	.10	.05	.02	.01	.001
1	0,000	0,001	0,004	0,016	2,706	3,841	5,412	6,635	10,827
2	0,020	0,040	0,103	0,211	4,605	5,991	7,824	9,210	13,815
3	0,115	0,185	0,352	0,584	6,251	7,815	9,837	11,345	16,266
4	0,297	0,429	0,711	1,064	7,779	9,488	11,668	13,277	18,467
5	0,554	0,752	1,145	1,610	9,236	11,070	13,388	15,086	20,515
6	0,872	1,134	1,635	2,204	10,645	12,592	15,033	16,812	22,457
7	1,239	1,564	2,167	2,833	12,017	14,067	16,622	18,475	24,322
8	1,646	2,032	2,733	3,490	13,362	15,507	18,168	20,090	26,125
9	2,088	2,532	3,325	4,168	14,684	16,919	19,679	21,666	27,877
10	2,558	3,059	3,940	4,865	15,987	18,307	21,161	23,209	29,588
11	3,053	3,609	4,575	5,578	17,275	19,675	22,618	24,725	31,264
12	3,571	4,178	5,226	6,304	18,549	21,026	24,054	26,217	32,909
13	4,107	4,765	5,892	7,042	19,812	22,362	25,472	27,688	34,528
14	4,660	5,368	6,571	7,790	21,064	23,685	26,873	29,141	36,123
16	5,229	5,985	7,261	8,547	22,307	24,996	28,259	30,578	37,697
16	5,812	6,614	7,962	9,312	23,542	26,296	29,633	32,000	39,252
17	6,408	7,255	8,672	10,085	24,769	27,587	30,995	33,409	40,790
18	7,015	7,906	9,390	10,865	25,989	28,869	32,346	34,805	42,312
19	7,633	8,567	10,117	11,651	27,204	30,144	33,687	36,191	43,820
20	8,260	9,237	10,851	12,443	28,412	31,410	35,020	37,566	45,315
21	8,897	9,915	11,591	13,240	29,615	32,671	36,343	38,932	46,797
22	9,542	10,600	12,338	14,041	30,813	33,924	37,659	40,289	48,268
23	10,196	11,293	13,091	14,848	32,007	35,172	38,968	41,628	49,728
24	10,856	11,992	13,848	15,659	33,196	36,415	40,270	42,980	51,179
25	11,524	12,697	14,611	16,473	34,382	37,652	41,566	44,314	52,620
26	12,198	13,409	15,379	17,292	35,563	38,885	42,856	45,642	54,052
27	12,879	14,125	16,151	18,114	36,741	40,113	44,140	46,963	55,476
28	13,565	14,847	16,928	18,939	37,916	41,337	45,419	48,278	56,893
29	14,256	15,574	17,708	19,768	39,087	42,557	46,693	49,588	58,302
30	14,953	16,306	18,493	20,599	40,256	43,773	47,962	50,892	59,703
32	16,362	17,783	20,072	22,271	42,585	46,194	50,487	53,486	62,487
34	17,789	19,275	21,664	23,952	44,903	48,602	52,995	56,061	65,247
36	19,233	20,783	23,269	25,643	47,212	50,999	55,489	58,619	67,985
38	20,691	22,304	24,884	27,343	49,513	53,384	57,969	61,162	70,703
40	22,164	23,838	26,509	29,051	51,805	55,759	60,436	63,691	73,402
42	23,650	25,383	28,144	30,765	54,090	58,124	62,892	66,206	76,084
44	25,148	26,939	29,787	32,487	56,369	60,481	65,337	68,710	78,750
46	26,657	28,504	31,439	34,215	58,641	62,830	67,771	71,201	81,400
48	28,177	30,080	33,098	35,949	60,907	65,171	70,197	73,683	84,037
50	29,707	31,664	34,764	37,689	63,167	67,505	72,613	76,154	86,661
52	31,246	33,256	36,437	39,433	65,422	69,832	75,021	78,616	89,272
54	32,793	34,856	38,116	41,183	67,673	72,153	77,422	81,069	91,872
56	34,350	36,464	39,801	42,937	69,919	74,468	79,815	83,513	94,461
58	35,913	38,078	41,492	44,696	72,160	76,778	82,201	85,950	97,039
60	37,485	39,699	43,188	46,459	74,397	79,082	84,580	88,379	99,607
62	39,063	41,327	44,889	48,226	76,630	81,381	86,953	90,802	102,166
64	40,649	42,960	46,595	49,996	78,860	83,675	89,320	93,217	104,716
66	42,240	44,599	48,305	51,770	81,085	85,965	91,681	95,626	107,258
68	43,838	46,244	50,020	53,548	83,308	88,250	94,037	98,028	109,791
70	45,442	47,893	51,739	55,329	85,527	90,531	96,388	100,425	112,317

TABLA 8.-TRANSFORMACIÓN DE r en z_r Transformación de r en z_r

r	z_r	r	z_r	r	z_r	r	z_r	r	z_r
.000	.000	.200	.203	.400	.424	.600	.693	.800	1.099
.005	.005	.205	.208	.405	.430	.605	.701	.805	1.113
.010	.010	.210	.213	.410	.436	.610	.709	.810	1.127
.015	.015	.215	.218	.415	.442	.615	.717	.815	1.142
.020	.020	.220	.224	.420	.448	.620	.725	.820	1.157
.025	.025	.225	.229	.425	.454	.625	.733	.825	1.172
.030	.030	.230	.234	.430	.460	.630	.741	.830	1.188
.035	.035	.235	.239	.435	.466	.635	.750	.835	1.204
.040	.040	.240	.245	.440	.472	.640	.758	.840	1.221
.045	.045	.245	.250	.445	.478	.645	.767	.845	1.238
.050	.050	.250	.255	.450	.485	.650	.775	.850	1.256
.055	.055	.255	.261	.455	.491	.655	.784	.855	1.274
.060	.060	.260	.266	.460	.497	.660	.793	.860	1.293
.065	.065	.265	.271	.465	.504	.665	.802	.865	1.313
.070	.070	.270	.277	.470	.510	.670	.811	.870	1.333
.075	.075	.275	.282	.475	.517	.675	.820	.875	1.354
.080	.080	.280	.288	.480	.523	.680	.829	.880	1.376
.085	.085	.285	.293	.485	.530	.685	.838	.885	1.398
.090	.090	.290	.299	.490	.536	.690	.848	.890	1.422
.095	.095	.295	.304	.495	.543	.695	.858	.895	1.447
.100	.100	.300	.310	.500	.549	.700	.867	.900	1.472
.105	.105	.305	.315	.505	.556	.705	.877	.905	1.499
.110	.110	.310	.321	.510	.563	.710	.887	.910	1.528
.115	.116	.315	.326	.515	.570	.715	.897	.915	1.557
.120	.121	.320	.332	.520	.576	.720	.908	.920	1.589
.125	.126	.325	.337	.525	.583	.725	.918	.925	1.623
.130	.131	.330	.343	.530	.590	.730	.929	.930	1.658
.135	.136	.335	.348	.535	.597	.735	.940	.935	1.697
.140	.141	.340	.354	.540	.604	.740	.950	.940	1.738
.145	.146	.345	.360	.545	.611	.745	.962	.945	1.783
.150	.151	.350	.365	.550	.618	.750	.973	.950	1.832
.155	.156	.355	.371	.555	.626	.755	.984	.955	1.886
.160	.161	.360	.377	.560	.633	.760	.996	.960	1.946
.165	.167	.365	.383	.565	.640	.765	1.008	.965	2.014
.170	.172	.370	.388	.570	.648	.770	1.020	.970	2.092
.175	.177	.375	.394	.575	.655	.775	1.033	.975	2.185
.180	.182	.380	.400	.580	.662	.780	1.045	.980	2.298
.185	.187	.385	.406	.585	.670	.785	1.058	.985	2.443
.190	.192	.390	.412	.590	.678	.790	1.071	.990	2.647
.195	.198	.395	.418	.595	.685	.795	1.085	.995	2.994

Fuente: Allen L. Edwards (1967): *Statistical methods*, 2.^a ed., Holt, Rinehart, and Winston, Inc., Nueva York.

TABLA 9.-VALORES ASOCIADOS A DISTINTAS PROBABILIDADES

p	pq	\sqrt{pq}	pq/y	p/y	y	q/y	$\sqrt{p/q}$	\sqrt{pq}/y	q
.99	0,0099	0,0995	0,3715	37,148	0,02665	0,3752	9,950	3,733	.01
.98	0,0196	0,1400	0,4048	20,239	0,04842	0,4131	7,000	2,892	.02
.97	0,0291	0,1706	0,4277	14,256	0,06804	0,4409	5,686	2,507	.03
.96	0,0384	0,1960	0,4456	11,141	0,08617	0,4642	4,899	2,274	.04
.95	0,0475	0,2179	0,4605	9,211	0,1031	0,4848	4,359	2,113	.05
.94	0,0564	0,2375	0,4735	7,891	0,1191	0,5037	3,958	1,994	.06
.93	0,0651	0,2551	0,4848	6,926	0,1343	0,5213	3,645	1,900	.07
.92	0,0736	0,2713	0,4951	6,188	0,1487	0,5381	3,391	1,825	.08
.91	0,0819	0,2862	0,5043	5,604	0,1624	0,5542	3,180	1,762	.09
.90	0,0900	0,3000	0,5128	5,128	0,1755	0,5698	3,000	1,709	.10
.89	0,0979	0,3129	0,5206	4,733	0,1880	0,5850	2,844	1,664	.11
.88	0,1056	0,3250	0,5279	4,399	0,2000	0,5999	2,708	1,625	.12
.87	0,1131	0,3363	0,5346	4,112	0,2115	0,6145	2,587	1,590	.13
.86	0,1204	0,3470	0,5409	3,864	0,2226	0,6290	2,478	1,559	.14
.85	0,1275	0,3571	0,5468	3,648	0,2332	0,6433	2,380	1,532	.15
.84	0,1344	0,3666	0,5524	3,452	0,2433	0,6576	2,291	1,507	.16
.83	0,1411	0,3756	0,5576	3,280	0,2531	0,6718	2,210	1,484	.17
.82	0,1476	0,3842	0,5625	3,125	0,2624	0,6860	2,134	1,464	.18
.81	0,1539	0,3923	0,5671	2,985	0,2714	0,7002	2,065	1,446	.19
.80	0,1600	0,4000	0,5715	2,858	0,2800	0,7144	2,000	1,429	.20
.79	0,1659	0,4073	0,5756	2,741	0,2882	0,7287	1,940	1,413	.21
.78	0,1716	0,4142	0,5796	2,634	0,2961	0,7430	1,883	1,399	.22
.77	0,1771	0,4208	0,5832	2,536	0,3036	0,7575	1,830	1,386	.23
.76	0,1824	0,4271	0,5867	2,445	0,3109	0,7720	1,780	1,374	.24
.75	0,1875	0,4330	0,5900	2,360	0,3178	0,7867	1,732	1,363	.25
.74	0,1924	0,4386	0,5931	2,281	0,3244	0,8016	1,687	1,352	.26
.73	0,1971	0,4440	0,5961	2,208	0,3306	0,8166	1,644	1,343	.27
.72	0,2016	0,4490	0,5989	2,139	0,3366	0,8318	1,604	1,334	.28
.71	0,2059	0,4538	0,6015	2,074	0,3423	0,8472	1,565	1,326	.29
.70	0,2100	0,4583	0,6040	2,013	0,3477	0,8628	1,528	1,318	.30
.69	0,2139	0,4625	0,6063	1,956	0,3528	0,8787	1,492	1,311	.31
.68	0,2176	0,4665	0,6085	1,902	0,3576	0,8949	1,458	1,304	.32
.67	0,2211	0,4702	0,6106	1,850	0,3621	0,9112	1,425	1,298	.33
.66	0,2244	0,4737	0,6124	1,801	0,3664	0,9279	1,393	1,293	.34
.65	0,2275	0,4770	0,6142	1,755	0,3704	0,9449	1,363	1,288	.35
.64	0,2404	0,4800	0,6158	1,711	0,3741	0,9623	1,333	1,283	.36
.63	0,2331	0,4828	0,6174	1,669	0,3776	0,9800	1,305	1,279	.37
.62	0,2356	0,4854	0,6188	1,628	0,3808	0,9980	1,277	1,275	.38
.61	0,2379	0,4877	0,6200	1,590	0,3837	1,016	1,251	1,271	.39
.60	0,2400	0,4899	0,6212	1,553	0,3863	1,035	1,225	1,268	.40
.59	0,2419	0,4918	0,6223	1,518	0,3886	1,055	1,200	1,265	.41
.58	0,2439	0,4936	0,6232	1,484	0,3909	1,074	1,175	1,263	.42
.57	0,2451	0,4951	0,6240	1,451	0,3928	1,095	1,151	1,260	.43
.56	0,2464	0,4964	0,6247	1,420	0,3944	1,116	1,128	1,259	.44
.55	0,2475	0,4975	0,6253	1,390	0,3958	1,137	1,106	1,257	.45
.54	0,2484	0,4984	0,6258	1,360	0,3969	1,159	1,083	1,256	.46
.53	0,2491	0,4991	0,6262	1,332	0,3978	1,181	1,062	1,255	.47
.52	0,2496	0,4996	0,6264	1,305	0,3984	1,205	1,041	1,254	.48
.51	0,2499	0,4999	0,6266	1,279	0,3988	1,229	1,020	1,253	.49
.50	0,2500	0,5000	0,6267	1,253	0,3989	1,253	1,000	1,253	.50

TABLA 10.-VALORES DE LA CORRELACIÓN TETRACÓRICA

AD/BC	r_t	AD/BC	r_t	AD/BC	r_t
0,00 - 1,00	.00	2,42 - 2,48	.34	7,76 - 8,11	.68
1,01 - 1,03	.01	2,49 - 2,55	.35	8,12 - 8,49	.69
1,04 - 1,06	.02	2,56 - 2,63	.36	8,50 - 8,90	.70
1,07 - 1,08	.03	2,64 - 2,71	.37	8,91 - 9,35	.71
1,09 - 1,11	.04	2,72 - 2,79	.38	9,36 - 9,82	.72
1,12 - 1,14	.05	2,80 - 2,87	.39	9,83 - 10,33	.73
1,15 - 1,17	.06	2,88 - 2,96	.40	10,34 - 10,90	.74
1,18 - 1,20	.07	2,97 - 3,05	.41	10,91 - 11,51	.75
1,21 - 1,23	.08	3,06 - 3,14	.42	11,52 - 12,16	.76
1,24 - 1,27	.09	3,15 - 3,24	.43	12,17 - 12,89	.77
1,28 - 1,30	.10	3,25 - 3,34	.44	12,90 - 13,70	.78
1,31 - 1,33	.11	3,35 - 3,45	.45	13,71 - 14,58	.79
1,34 - 1,37	.12	3,46 - 3,56	.46	14,59 - 15,57	.80
1,38 - 1,40	.13	3,57 - 3,68	.47	15,58 - 16,65	.81
1,41 - 1,44	.14	3,69 - 3,80	.48	16,66 - 17,88	.82
1,45 - 1,48	.15	3,81 - 3,92	.49	17,89 - 19,28	.83
1,49 - 1,52	.16	3,93 - 4,06	.50	19,29 - 20,85	.84
1,53 - 1,56	.17	4,07 - 4,20	.51	20,86 - 22,68	.85
1,57 - 1,60	.18	4,21 - 4,34	.52	22,69 - 24,76	.86
1,61 - 1,64	.19	4,35 - 4,49	.53	24,77 - 27,22	.87
1,65 - 1,69	.20	4,50 - 4,66	.54	27,23 - 30,09	.88
1,70 - 1,73	.21	4,67 - 4,82	.55	30,10 - 33,60	.89
1,74 - 1,78	.22	4,83 - 4,99	.56	33,61 - 37,79	.90
1,79 - 1,83	.23	5,00 - 5,18	.57	37,80 - 43,06	.91
1,84 - 1,88	.24	5,19 - 5,38	.58	43,07 - 49,83	.92
1,89 - 1,93	.25	5,39 - 5,59	.59	49,84 - 58,79	.93
1,94 - 1,98	.26	5,60 - 5,80	.60	58,80 - 70,95	.94
1,99 - 2,04	.27	5,81 - 6,03	.61	70,96 - 89,01	.95
2,05 - 2,10	.28	6,04 - 6,28	.62	89,02 - 117,54	.96
2,11 - 2,15	.29	6,29 - 6,54	.63	117,55 - 169,67	.97
2,16 - 2,22	.30	6,55 - 6,81	.64	169,68 - 293,12	.98
2,23 - 2,28	.31	6,82 - 7,10	.65	293,13 - 923,97	.99
2,29 - 2,34	.32	7,11 - 7,42	.66	923,98 -	1.00
2,35 - 2,41	.33	7,43 - 7,75	.67		

TABLA 11.-TABLA PARA EL ANÁLISIS DE ITEMS (DIFICULTAD)

IX. TABLA DE ANÁLISIS DE LOS ELEMENTOS DE UN TEST—ID e IH
Grupo del 57 % super
Porcentaje de fallos

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96																																																																																																																																																																																																			
00.12	10.24	20.48	30.72	41.16	51.60	62.16	72.84	83.64	94.56	105.60	116.76	128.04	139.44	150.96	162.60	174.36	186.24	198.24	210.36	222.60	234.96	247.44	260.04	272.76	285.60	298.56	311.64	324.84	338.16	351.60	365.16	378.84	392.64	406.56	420.60	434.76	449.04	463.44	477.96	492.60	507.36	522.24	537.24	552.36	567.60	582.96	598.44	614.04	629.76	645.60	661.56	677.64	693.84	710.16	726.60	743.16	759.84	776.64	793.56	810.60	827.84	845.24	862.80	880.56	898.44	916.44	934.56	952.80	971.24	989.84	1008.60	1027.56	1046.76	1066.16	1085.76	1105.56	1125.56	1145.76	1166.16	1186.76	1207.56	1228.56	1249.76	1271.16	1292.76	1314.56	1336.56	1358.76	1381.16	1403.76	1426.56	1449.56	1472.76	1496.16	1519.76	1543.56	1567.56	1591.76	1616.16	1640.76	1665.56	1690.56	1715.76	1741.16	1766.76	1792.56	1818.56	1844.76	1871.16	1897.76	1924.56	1951.56	1978.76	2006.16	2033.76	2061.56	2089.56	2117.76	2146.16	2174.76	2203.56	2232.56	2261.76	2291.16	2320.76	2350.56	2380.56	2410.76	2441.16	2471.76	2502.56	2533.56	2564.76	2596.16	2627.76	2659.56	2691.56	2723.76	2756.16	2788.76	2821.56	2854.56	2887.76	2921.16	2954.76	2988.56	3022.56	3056.76	3091.16	3125.76	3160.56	3195.56	3230.76	3266.16	3301.76	3337.56	3373.56	3409.76	3446.16	3482.76	3519.56	3556.56	3593.76	3631.16	3668.76	3706.56	3744.56	3782.76	3821.16	3859.76	3898.56	3937.56	3976.76	4016.16	4055.76	4095.56	4135.56	4175.76	4216.16	4256.76	4297.56	4338.56	4379.76	4421.16	4462.76	4504.56	4546.56	4588.76	4631.16	4673.76	4716.56	4759.56	4802.76	4846.16	4889.76	4933.56	4977.56	5021.76	5066.16	5110.76	5155.56	5200.56	5245.76	5291.16	5336.76	5382.56	5428.56	5474.76	5521.16	5567.76	5614.56	5661.56	5708.76	5756.16	5803.76	5851.56	5899.56	5947.76	5996.16	6044.76	6093.56	6142.56	6191.76	6241.16	6290.76	6340.56	6390.56	6440.76	6491.16	6541.76	6592.56	6643.56	6694.76	6746.16	6797.76	6849.56	6901.56	6953.76	7006.16	7058.76	7111.56	7164.56	7217.76	7271.16	7324.76	7378.56	7432.56	7486.76	7541.16	7595.76	7650.56	7705.56	7760.76	7816.16	7871.76	7927.56	7983.56	8039.76	8096.16	8152.76	8209.56	8266.56	8323.76	8381.16	8438.76	8496.56	8554.56	8612.76	8671.16	8729.76	8788.56	8847.56	8906.76	8966.16	9025.76	9085.56	9145.76	9206.16	9266.76	9327.56	9388.56	9449.76	9511.16	9572.76	9634.56	9696.56	9758.76	9821.16	9883.76	9946.56	1000.00

MUY DIFÍCIL DIFÍCIL DIFICULTAD MEDIANA FÁCIL MUY FÁCIL