

Finding Audible Differences

N	r	Type 1 Error (α)		Type 2 Error (β)				
		actual value	p=.6	p=.7	p=.75	p=.8	p=.9	
50	37	.0005	.9720	.6721	.3630	.1106	.0003	
	36	.0013	.9460	.5532	.2519	.0607	.0001	
	35	.0033	.9045	.4308	.1631	.0308	.0000	
	34	.0077	.8439	.3161	.0983	.0144	.0000	
	33	.0164	.7631	.2178	.0551	.0063	.0000	
	32	.0325	.6644	.1406	.0287	.0025	.0000	
	31	.0595	.5535	.0848	.0139	.0009	.0000	
	30	.1013	.4390	.0478	.0063	.0003	.0000	
	29	.1611	.3299	.0251	.0026	.0001	.0000	
	28	.2399	.2340	.0123	.0010	.0000	.0000	
	27	.3359	.1562	.0056	.0004	.0000	.0000	
	26	.4439	.0978	.0024	.0001	.0000	.0000	
	25	.5561	.0573	.0009	.0000	.0000	.0000	
	24	.6641	.0314	.0003	.0000	.0000	.0000	
23	.7601	.0160	.0001	.0000	.0000	.0000		
60	43	.0005	.9587	.5486	.2247	.0427	.0000	
	42	.0013	.9281	.4368	.1486	.0221	.0000	
	41	.0031	.8830	.3308	.0925	.0107	.0000	
	40	.0067	.8214	.2378	.0541	.0048	.0000	
	39	.0137	.7432	.1618	.0298	.0020	.0000	
	38	.0259	.6507	.1041	.0154	.0008	.0000	
	37	.0462	.5489	.0632	.0075	.0003	.0000	
	36	.0775	.4442	.0362	.0034	.0001	.0000	
	35	.1225	.3437	.0196	.0015	.0000	.0000	
	34	.1831	.2536	.0100	.0006	.0000	.0000	
	33	.2595	.1779	.0048	.0002	.0000	.0000	
	32	.3494	.1184	.0022	.0001	.0000	.0000	
	31	.4487	.0746	.0009	.0000	.0000	.0000	
	30	.5513	.0445	.0004	.0000	.0000	.0000	
29	.6506	.0250	.0001	.0000	.0000	.0000		
28	.7405	.0133	.0000	.0000	.0000	.0000		
80	55	.0005	.9325	.3521	.0805	.0058	.0000	
	54	.0012	.8963	.2677	.0499	.0028	.0000	
	53	.0024	.8479	.1954	.0295	.0013	.0000	
	52	.0048	.7869	.1367	.0166	.0005	.0000	
	51	.0092	.7139	.0916	.0089	.0002	.0000	
	50	.0165	.6313	.0587	.0046	.0001	.0000	
	49	.0283	.5424	.0360	.0022	.0000	.0000	
	48	.0465	.4516	.0211	.0010	.0000	.0000	
	47	.0728	.3636	.0118	.0005	.0000	.0000	
	46	.1093	.2825	.0063	.0002	.0000	.0000	
	45	.1572	.2115	.0032	.0001	.0000	.0000	
	44	.2170	.1523	.0016	.0000	.0000	.0000	
	43	.2882	.1053	.0007	.0000	.0000	.0000	
	42	.3688	.0699	.0003	.0000	.0000	.0000	
41	.4555	.0445	.0001	.0000	.0000	.0000		
40	.5445	.0271	.0001	.0000	.0000	.0000		
39	.6312	.0158	.0000	.0000	.0000	.0000		
100	66	.0009	.8697	.1629	.0164	.0003	.0000	
	65	.0018	.8205	.1161	.0094	.0001	.0000	
	64	.0033	.7614	.0799	.0052	.0001	.0000	
	63	.0060	.6932	.0530	.0027	.0000	.0000	
	62	.0105	.6178	.0340	.0014	.0000	.0000	
	61	.0176	.5379	.0210	.0007	.0000	.0000	
	60	.0284	.4567	.0125	.0003	.0000	.0000	
	59	.0443	.3775	.0072	.0001	.0000	.0000	
	58	.0666	.3033	.0040	.0001	.0000	.0000	
	57	.0967	.2365	.0021	.0000	.0000	.0000	
	56	.1356	.1789	.0011	.0000	.0000	.0000	
	55	.1841	.1311	.0005	.0000	.0000	.0000	
	54	.2421	.0930	.0003	.0000	.0000	.0000	
	53	.3086	.0638	.0001	.0000	.0000	.0000	
52	.3822	.0423	.0001	.0000	.0000	.0000		
51	.4602	.0271	.0000	.0000	.0000	.0000		
50	.5398	.0168	.0000	.0000	.0000	.0000		