

Critical Reasoning Test Battery Reliability: South Africans of African race, updated 2010.

Sample composition

The sample consisted of South Africans of African race, tested by Psytech South Africa and collaborators during the period leading up to January 2010. Because not all respondents completed both the Verbal and Numerical Critical Reasoning Tests, the statistics are reported separately for the two tests.

Sample composition: Numerical Critical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	809	809	60.55389	60.5539
F	524	1333	39.22156	99.7754
U	3	1336	0.22455	100.0000
Missing	0	1336	0.00000	100.0000

Category	Frequency table: Education Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Post Graduate	214	214	16.01796	16.0180
Diploma	471	685	35.25449	51.2725
Grade 12	101	786	7.55988	58.8323
Degree	382	1168	28.59281	87.4251
<Grade 12	4	1172	0.29940	87.7246
Vocational Training	21	1193	1.57186	89.2964
Missing	143	1336	10.70359	100.0000

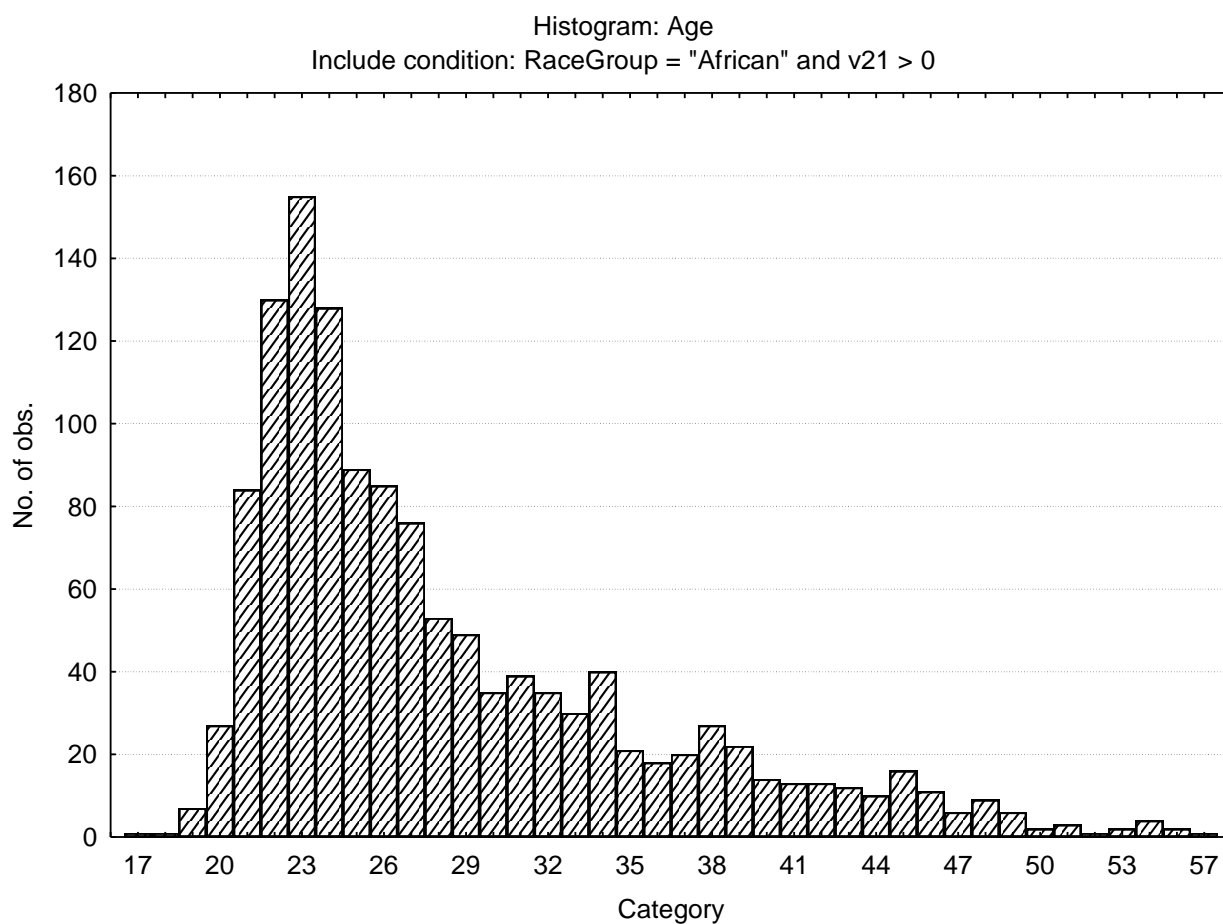
Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
English	56	56	4.19162	4.1916
Setswana	144	200	10.77844	14.9701
Afrikaans	5	205	0.37425	15.3443
isiZulu	359	564	26.87126	42.2156
Xitsonga	44	608	3.29341	45.5090
isiXhosa	272	880	20.35928	65.8683
Sepedi	74	954	5.53892	71.4072
Tshivenda	45	999	3.36826	74.7754

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiNdebele	11	1010	0.82335	75.5988
siSwati	18	1028	1.34731	76.9461
Sesotho	179	1207	13.39820	90.3443
Missing	129	1336	9.65569	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	56	56	4.19162	4.1916
Indigenous	1146	1202	85.77844	89.9701
Afrikaans	5	1207	0.37425	90.3443
Missing	129	1336	9.65569	100.0000

Category	Frequency table: Race Group			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1336	1336	100.0000	100.0000
Missing	0	1336	0.0000	100.0000

Variable	Descriptive Statistics: Age					N	No.cases Missing
	Mean	Std.Dev	Minimum	Maximum			
Age	28.31149	7.285204	17.00000	57.00000		1297	39



Sample composition: Verbal Critical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	811	811	60.61286	60.6129
F	524	1335	39.16293	99.7758
U	3	1338	0.22422	100.0000
Missing	0	1338	0.00000	100.0000

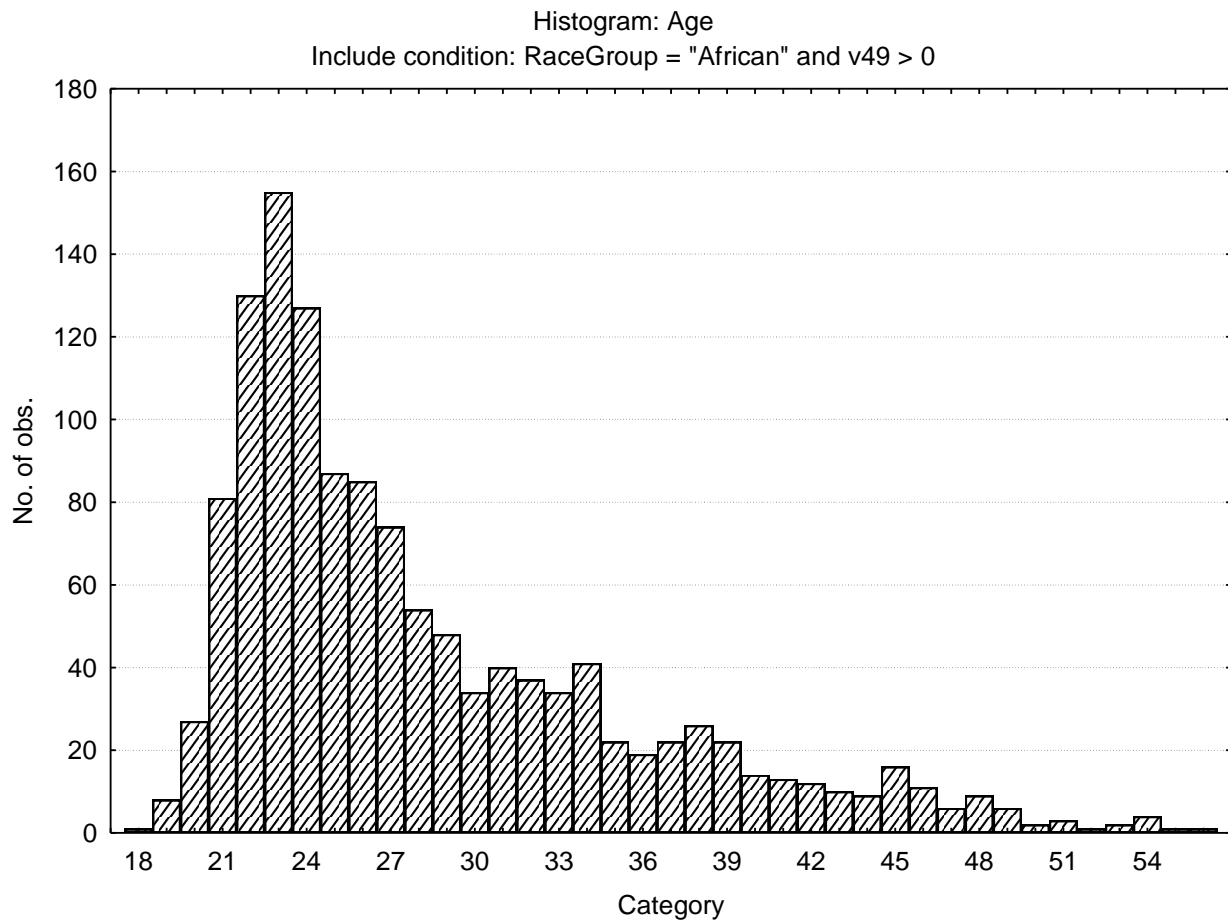
Category	Frequency table: Education Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Post Graduate	228	228	17.04036	17.0404
Diploma	464	692	34.67862	51.7190
Grade 12	97	789	7.24963	58.9686
Degree	392	1181	29.29746	88.2661
<Grade 12	3	1184	0.22422	88.4903
Vocational Training	18	1202	1.34529	89.8356
Missing	136	1338	10.16442	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
English	57	57	4.26009	4.2601
Setswana	146	203	10.91181	15.1719
Afrikaans	7	210	0.52317	15.6951
isiZulu	353	563	26.38266	42.0777
Xitsonga	43	606	3.21375	45.2915
isiXhosa	270	876	20.17937	65.4709
Sepedi	76	952	5.68012	71.1510
Tshivenda	47	999	3.51271	74.6637
isiNdebele	10	1009	0.74738	75.4111
siSwati	19	1028	1.42003	76.8311
Sesotho	178	1206	13.30344	90.1345
Missing	132	1338	9.86547	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	57	57	4.26009	4.2601
Indigenous	1142	1199	85.35127	89.6114
Afrikaans	7	1206	0.52317	90.1345
Missing	132	1338	9.86547	100.0000

Category	Frequency table: Race Group			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1338	1338	100.0000	100.0000
Missing	0	1338	0.0000	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	28.31607	7.213125	18.00000	57.00000	1294	44



Internal Consistency Reliabilities for Critical Reasoning Test Battery Subtests

	Cronbach coefficient alpha
Numerical Critical Reasoning Test	.66
Verbal Critical Reasoning Test	.79