

Critical Reasoning Test Battery reliability: South African speakers of indigenous languages, updated 2010

Sample composition

The sample consisted of South Africans tested by Psytech SA and collaborators in the period leading up to January 2010. Not all respondents completed both the Numerical and Verbal Critical Reasoning Tests, therefore biographical particulars are reported separately for the two tests.

Sample composition: Numerical Critical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	700	700	60.29285	60.2929
F	460	1160	39.62102	99.9139
U	1	1161	0.08613	100.0000
Missing	0	1161	0.00000	100.0000

Category	Frequency table: Education Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Post Graduate	189	189	16.27907	16.2791
Diploma	434	623	37.38157	53.6606
Grade 12	77	700	6.63221	60.2929
Degree	328	1028	28.25151	88.5444
<Grade 12	4	1032	0.34453	88.8889
Vocational Training	19	1051	1.63652	90.5254
Missing	110	1161	9.47459	100.0000

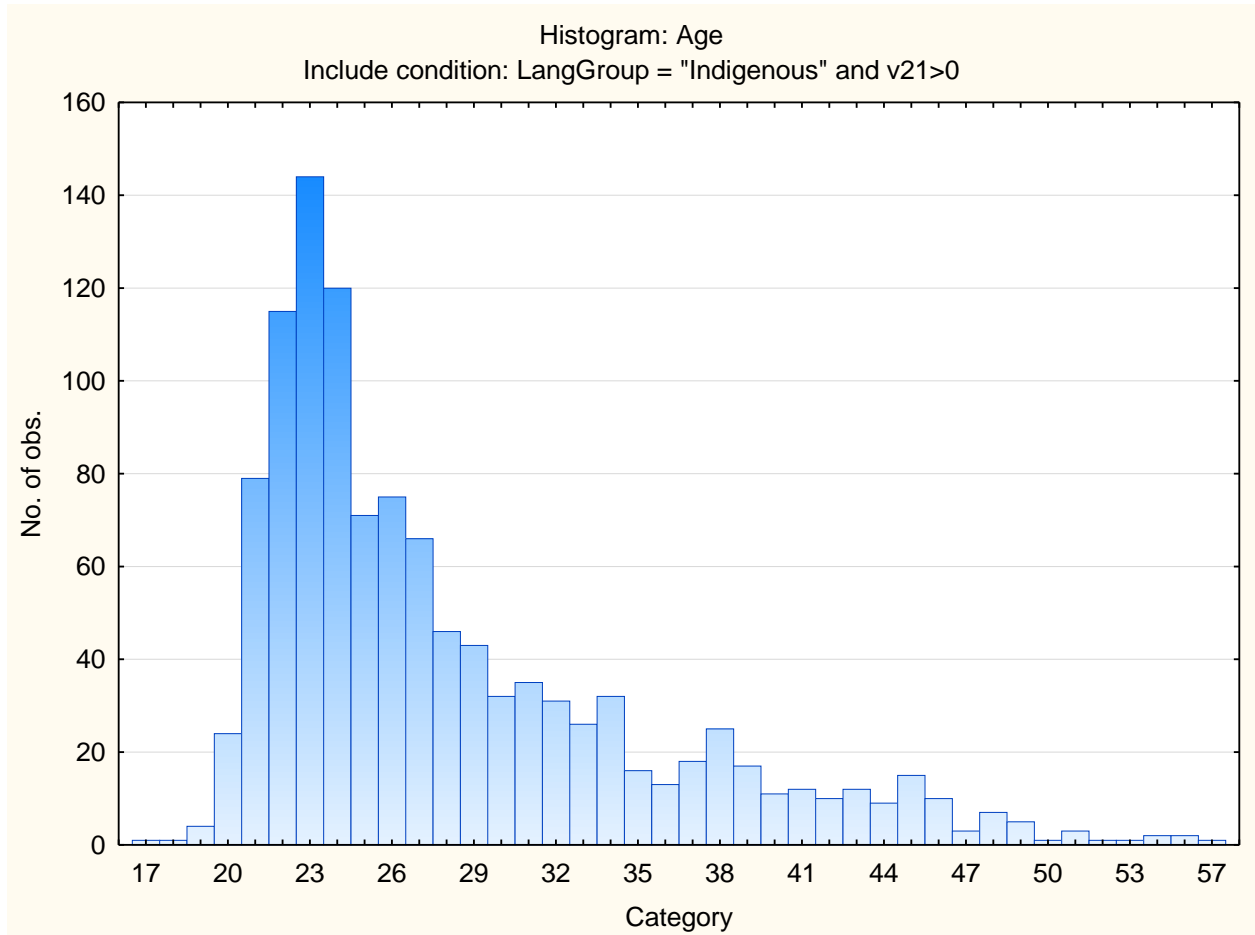
Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Setswana	144	144	12.40310	12.4031
isiZulu	364	508	31.35228	43.7554
Xitsonga	44	552	3.78984	47.5452
isiXhosa	278	830	23.94488	71.4901
Sepedi	77	907	6.63221	78.1223
Tshivenda	45	952	3.87597	81.9983
isiNdebele	11	963	0.94746	82.9457
siSwati	19	982	1.63652	84.5823
Sesotho	179	1161	15.41774	100.0000
Missing	0	1161	0.00000	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	1161	1161	100.0000	100.0000
Missing	0	1161	0.0000	100.0000

Category	Frequency table: Race Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Asian	6	6	0.51680	0.5168
European	4	10	0.34453	0.8613
African	1146	1156	98.7080 1	99.5693
Missing	5	1161	0.43066	100.0000

	Descriptive Statistics: Age
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Variable	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	28.10184	7.150294	17.00000	57.00000	1139	22



Sample composition: Verbal Critical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	700	700	60.50130	60.5013
F	456	1156	39.41227	99.9136
U	1	1157	0.08643	100.0000
Missing	0	1157	0.00000	100.0000

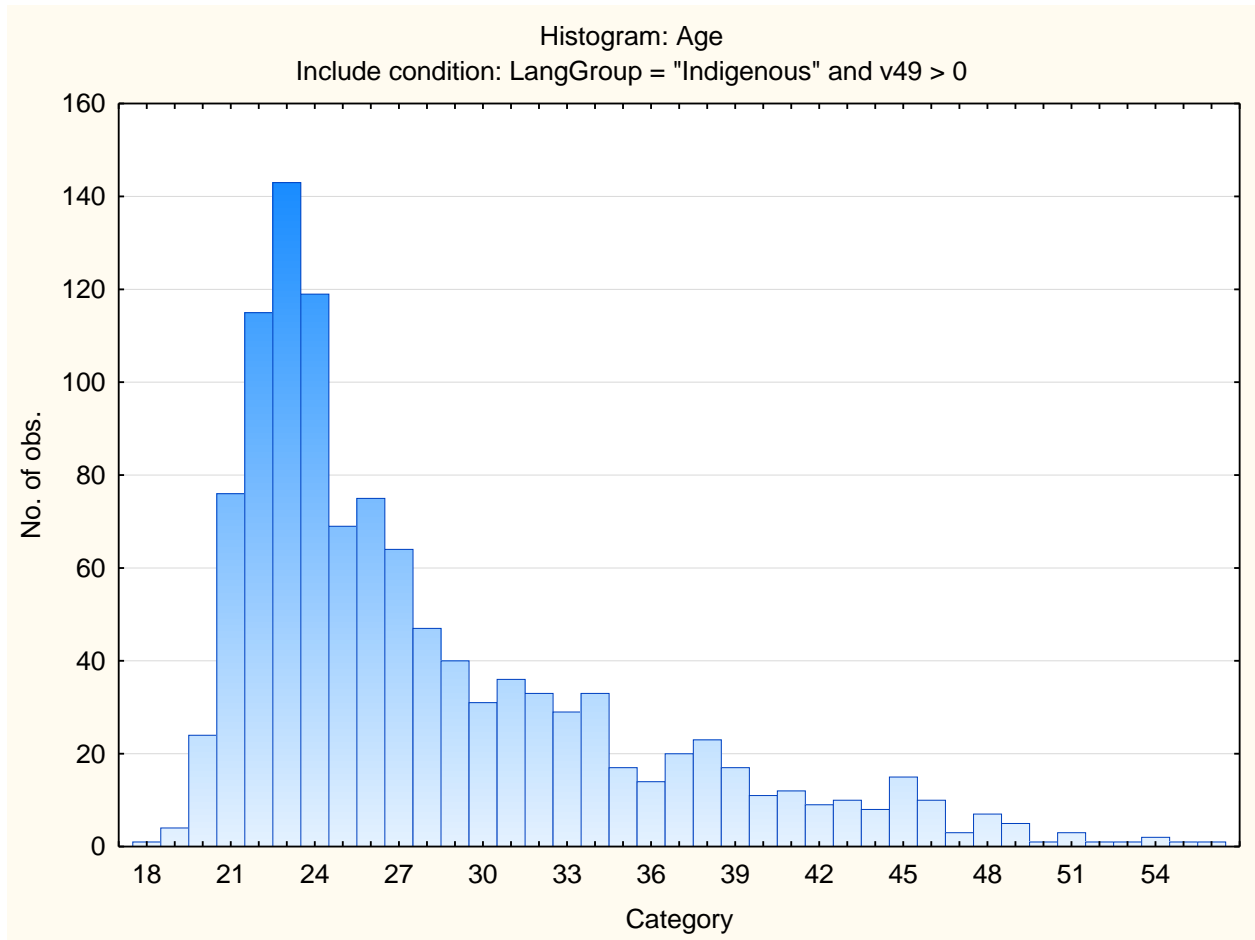
Category	Frequency table: Education Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Post Graduate	201	201	17.37252	17.3725
Diploma	427	628	36.90579	54.2783
Grade 12	71	699	6.13656	60.4149
Degree	337	1036	29.12705	89.5419
<Grade 12	3	1039	0.25929	89.8012
Vocational Training	16	1055	1.38289	91.1841
Missing	102	1157	8.81590	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Setswana	146	146	12.61884	12.6188
isiZulu	357	503	30.85566	43.4745
Xitsonga	43	546	3.71651	47.1910
isiXhosa	277	823	23.94123	71.1322
Sepedi	79	902	6.82800	77.9602
Tshivenda	47	949	4.06223	82.0225
isiNdebele	10	959	0.86430	82.8868
siSwati	20	979	1.72861	84.6154
Sesotho	178	1157	15.38462	100.0000
Missing	0	1157	0.00000	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenou s	1157	1157	100.000 0	100.0000
Missing	0	1157	0.0000	100.0000

Category	Frequency table: Race Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Asian	6	6	0.51858	0.5186
European	4	10	0.34572	0.8643
African	1142	1152	98.70354	99.5678
Coloured	1	1153	0.08643	99.6543
Missing	4	1157	0.34572	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No. cases Missing
Age	28.1044 2	7.07054 7	18.00000	57.00000	113 0	27



Internal consistency reliabilities of Critical Reasoning Test Battery subtests

	Cronbach coefficient alpha
Numerical Critical Reasoning Test	.64
Verbal Critical Reasoning Test	.75