

General Reasoning Test Battery Reliability: South Africans, Race African, updated 2011

Sample composition

The sample consisted of South Africans of African race who were tested by Psytech South Africa and collaborators during the period up to February 2011. Since not all respondents completed all the subtests of the General Reasoning Test Battery, the biographical characteristics are reported separately for the Verbal, Numerical and Abstract Reasoning tests.

Sample composition: General Verbal Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1608	1608	29.02527	29.0253
M	3914	5522	70.64982	99.6751
Missing	18	5540	0.32491	100.0000

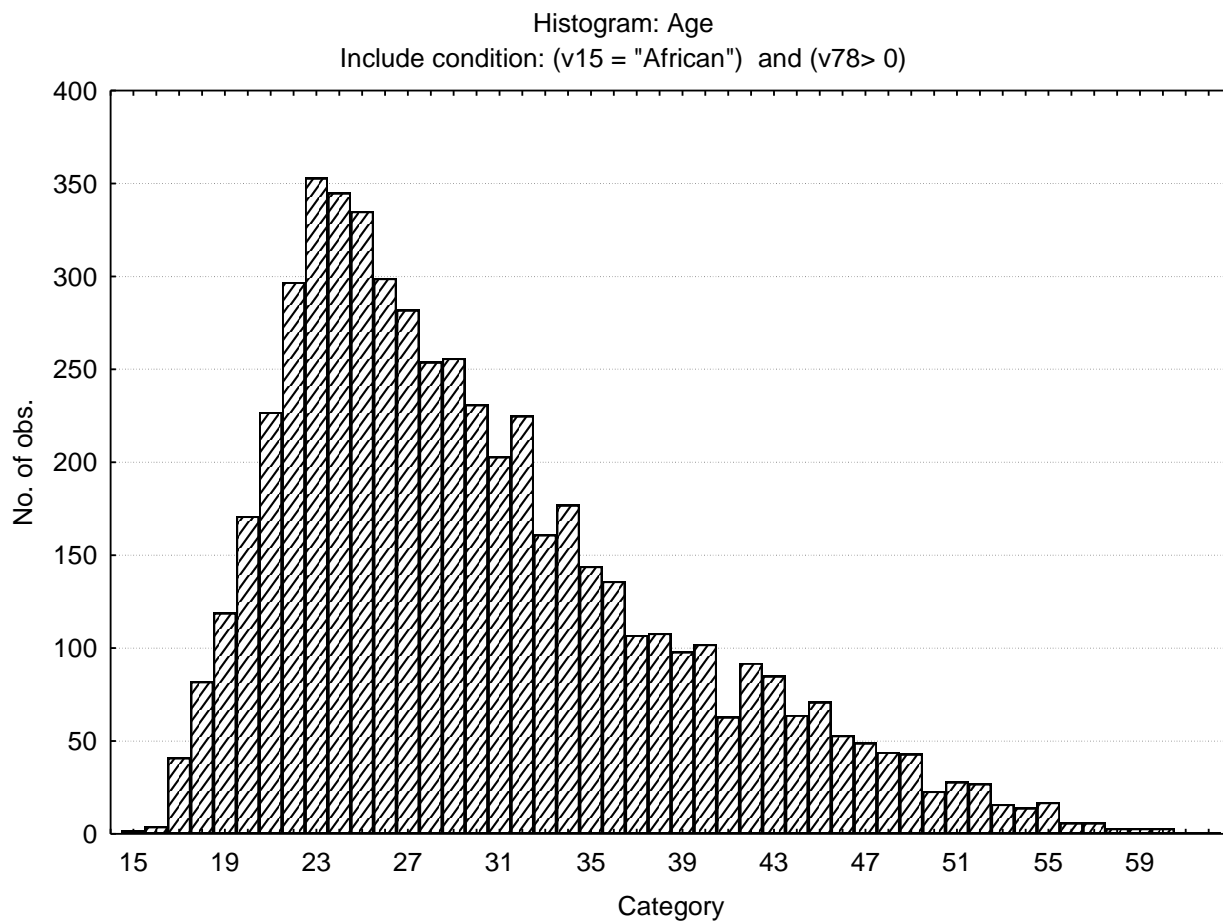
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1227	1227	22.14801	22.1480
Grade 12	1866	3093	33.68231	55.8303
University Diploma	182	3275	3.28520	59.1155
Degree	433	3708	7.81588	66.9314
Vocational Training	177	3885	3.19495	70.1264
Grade 10 or 11	546	4431	9.85560	79.9819
Grade 8	52	4483	0.93863	80.9206
Grade 9	48	4531	0.86643	81.7870
Grade 7	22	4553	0.39711	82.1841
Post Graduate	205	4758	3.70036	85.8845
Missing	782	5540	14.11552	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	1883	1883	33.98917	33.9892
English	235	2118	4.24188	38.2310
Afrikaans	63	2181	1.13718	39.3682
Setswana	547	2728	9.87365	49.2419
Sesotho	870	3598	15.70397	64.9458
Sepedi	224	3822	4.04332	68.9892
Xitsonga	121	3943	2.18412	71.1733
Tshivenda	66	4009	1.19134	72.3646
siSwati	57	4066	1.02888	73.3935
isiNdebele	31	4097	0.55957	73.9531
isiXhosa	1080	5177	19.49458	93.4477
Missing	363	5540	6.55235	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	235	235	4.24188	4.2419
Afrikaans	63	298	1.13718	5.3791
Indigenous	4921	5219	88.82671	94.2058
Missing	321	5540	5.79422	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	5540	5540	100.0000	100.0000
Missing	0	5540	0.0000	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.07439	8.349547	15.00000	69.00000	5471	69



Sample composition: General Numerical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1589	1589	28.77060	28.7706
M	3917	5506	70.92160	99.6922
Missing	17	5523	0.30780	100.0000

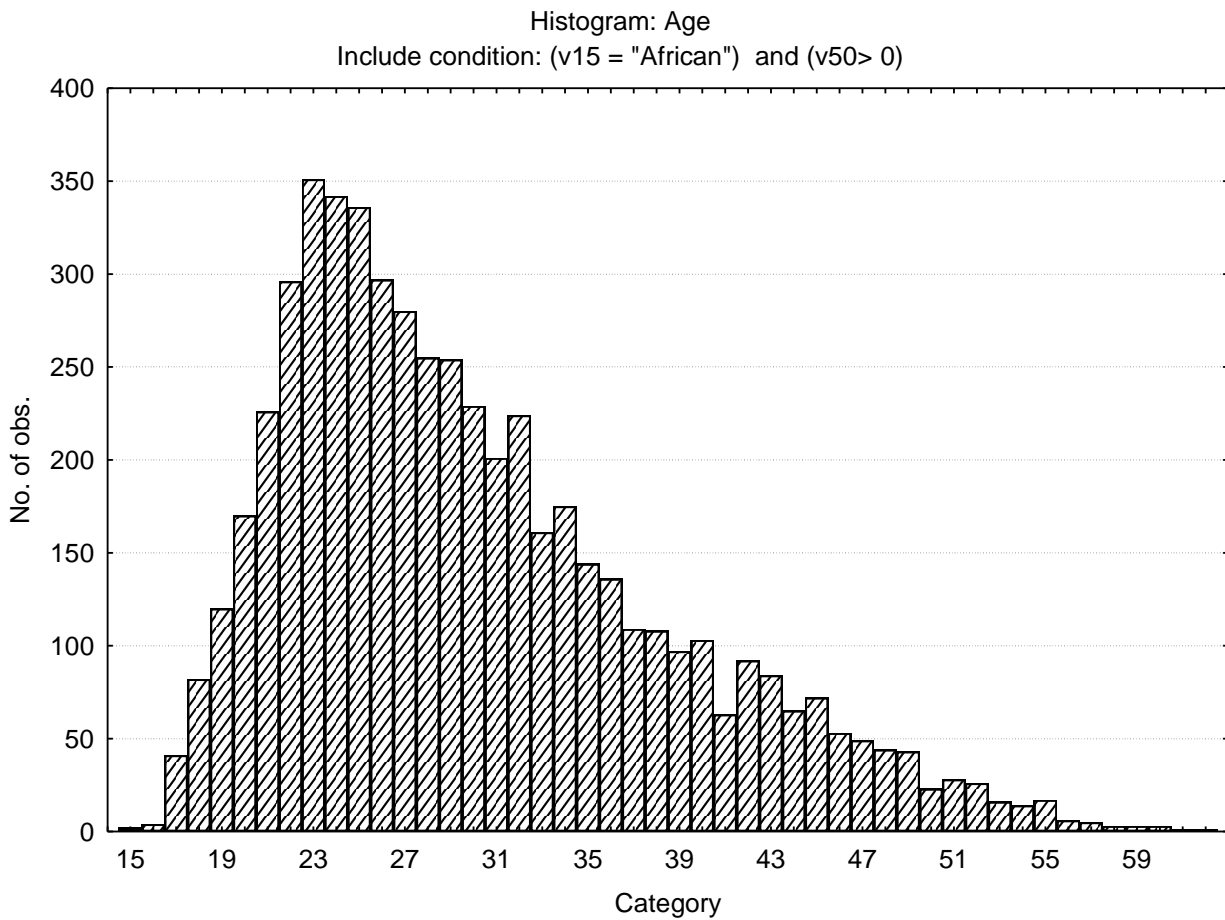
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1218	1218	22.05323	22.0532
Grade 12	1865	3083	33.76788	55.8211
University Diploma	180	3263	3.25910	59.0802
Degree	431	3694	7.80373	66.8839
Vocational Training	173	3867	3.13236	70.0163
Grade 10 or 11	549	4416	9.94025	79.9565
Grade 8	52	4468	0.94152	80.8981
Grade 9	49	4517	0.88720	81.7853
Grade 7	23	4540	0.41644	82.2017
Post Graduate	200	4740	3.62122	85.8229
Missing	783	5523	14.17708	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	1878	1878	34.00326	34.0033
English	234	2112	4.23683	38.2401
Afrikaans	62	2174	1.12258	39.3627
Setswana	548	2722	9.92214	49.2848
Sesotho	867	3589	15.69799	64.9828
Sepedi	224	3813	4.05577	69.0386
Xitsonga	120	3933	2.17273	71.2113
Tshivenda	65	3998	1.17690	72.3882
siSwati	57	4055	1.03205	73.4202
isiNdebele	31	4086	0.56129	73.9815
isiXhosa	1076	5162	19.48217	93.4637
Missing	361	5523	6.53630	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	234	234	4.23683	4.2368
Afrikaans	62	296	1.12258	5.3594
Indigenous	4908	5204	88.86475	94.2242
Missing	319	5523	5.77585	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	5523	5523	100.0000	100.0000
Missing	0	5523	0.0000	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.07957	8.348953	15.00000	69.00000	5454	69



Sample Composition: General Abstract Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1685	1685	28.60295	28.6030
M	4188	5873	71.09150	99.6944
Missing	18	5891	0.30555	100.0000

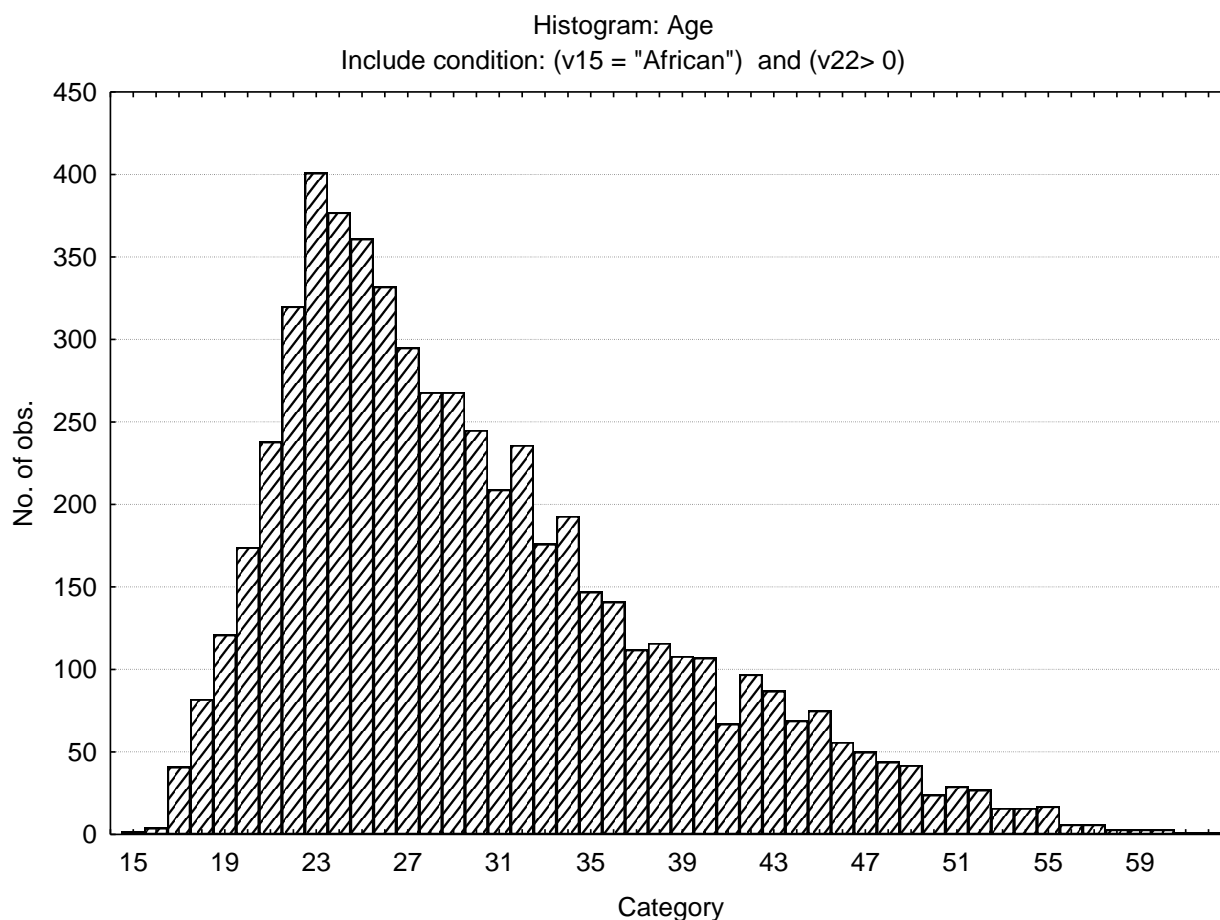
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1346	1346	22.84841	22.8484
Grade 12	1931	3277	32.77882	55.6272
University Diploma	206	3483	3.49686	59.1241
Degree	476	3959	8.08012	67.2042
Vocational Training	189	4148	3.20828	70.4125
Grade 10 or 11	554	4702	9.40418	79.8167
Grade 8	53	4755	0.89968	80.7163
Grade 9	50	4805	0.84875	81.5651
Grade 7	23	4828	0.39043	81.9555
Post Graduate	260	5088	4.41351	86.3690
Missing	803	5891	13.63096	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	2037	2037	34.57817	34.5782
English	252	2289	4.27771	38.8559
Afrikaans	65	2354	1.10338	39.9593
Setswana	574	2928	9.74368	49.7029
Sesotho	912	3840	15.48124	65.1842
Sepedi	232	4072	3.93821	69.1224
Xitsonga	137	4209	2.32558	71.4480
Tshivenda	70	4279	1.18825	72.6362
siSwati	60	4339	1.01850	73.6547
isiNdebele	32	4371	0.54320	74.1979
isiXhosa	1143	5514	19.40248	93.6004
Missing	377	5891	6.39959	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	252	252	4.27771	4.2777
Afrikaans	65	317	1.10338	5.3811
Indigenous	5239	5556	88.93227	94.3134
Missing	335	5891	5.68664	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	5891	5891	100.0000	100.0000
Missing	0	5891	0.0000	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.00327	8.275381	15.00000	69.00000	5813	78



Internal consistency reliabilities for General Reasoning Test Battery subtests

	Cronbach Coefficient Alpha
General Verbal Reasoning Test	.78
General Numerical Reasoning Test	.73
General Abstract Reasoning Test	.79