

General Reasoning Test Battery Reliability: South Africans, speaking indigenous languages, updated 2011

Sample composition

The sample consisted of South Africans speaking an indigenous language as their first language, tested by Psytech SA and collaborators during the period up to February 2011. Since not all respondents completed all the subtests of the General Reasoning Test Battery, biographical particulars are reported separately for the different subtests.

Sample composition: General Verbal Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1451	1451	28.75545	28.7554
M	3579	5030	70.92747	99.6829
Missing	16	5046	0.31708	100.0000

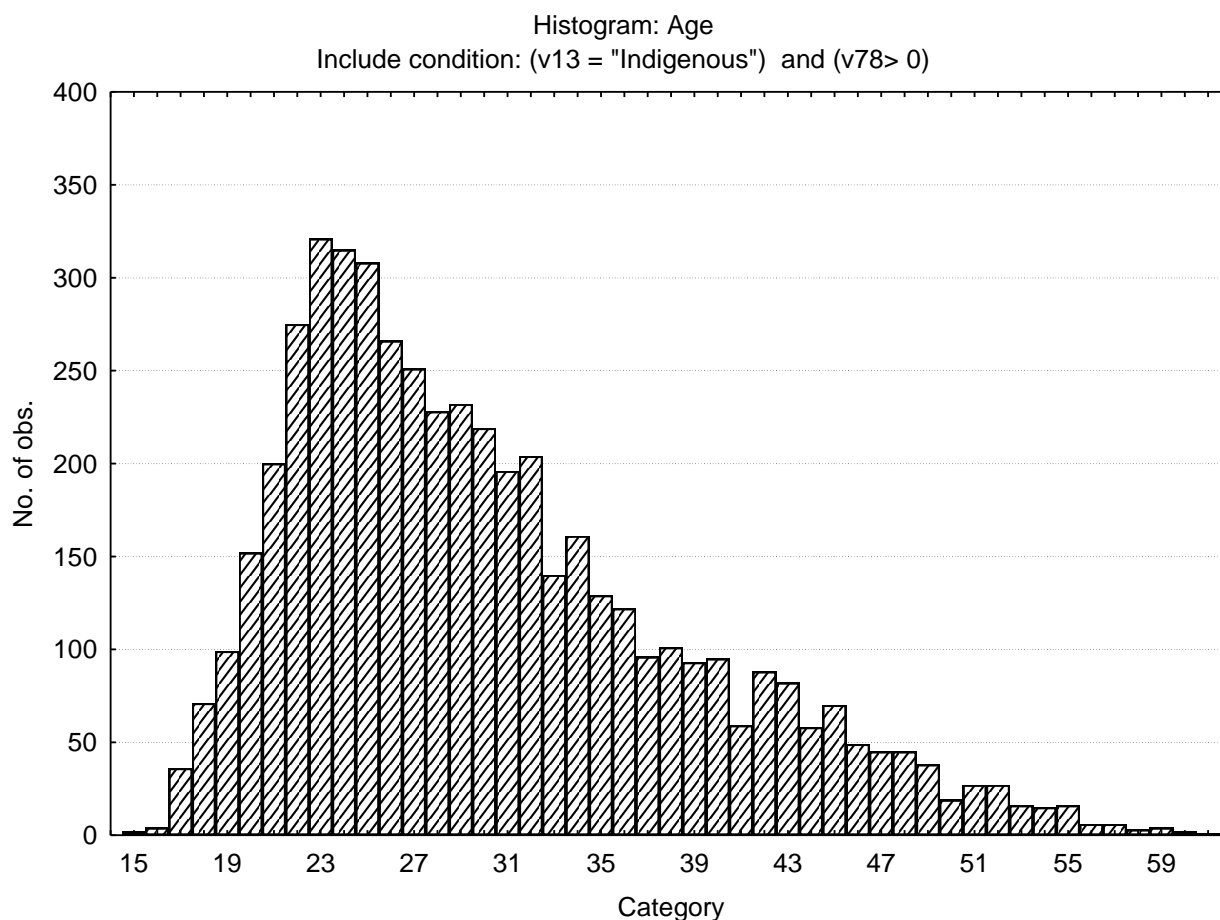
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1120	1120	22.19580	22.1958
Grade 12	1714	2834	33.96750	56.1633
University Diploma	154	2988	3.05192	59.2152
Degree	372	3360	7.37218	66.5874
Vocational Training	165	3525	3.26992	69.8573
Grade 10 or 11	527	4052	10.44392	80.3012
Grade 8	52	4104	1.03052	81.3317
Grade 9	47	4151	0.93143	82.2632
Grade 7	23	4174	0.45581	82.7190
Post Graduate	168	4342	3.32937	86.0484
Missing	704	5046	13.95164	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	1907	1907	37.79231	37.7923
Setswana	559	2466	11.07808	48.8704
Sesotho	877	3343	17.38010	66.2505
Sepedi	229	3572	4.53825	70.7887
Xitsonga	121	3693	2.39794	73.1867
Tshivenda	67	3760	1.32778	74.5145
siSwati	58	3818	1.14943	75.6639
isiNdebele	32	3850	0.63417	76.2981
isiXhosa	1111	4961	22.01744	98.3155
Missing	85	5046	1.68450	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	5046	5046	100.0000	100.0000
Missing	0	5046	0.0000	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	4921	4921	97.52279	97.5228
European	12	4933	0.23781	97.7606
Coloured	17	4950	0.33690	98.0975
Asian	15	4965	0.29727	98.3948
Missing	81	5046	1.60523	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.22216	8.406577	15.00000	63.00000	4992	54



Sample composition: General Numerical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1437	1437	28.54589	28.5459
M	3582	5019	71.15614	99.7020
Missing	15	5034	0.29797	100.0000

Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1113	1113	22.10965	22.1097
Grade 12	1714	2827	34.04847	56.1581
University Diploma	152	2979	3.01947	59.1776
Degree	373	3352	7.40961	66.5872
Vocational Training	161	3513	3.19825	69.7855
Grade 10 or 11	527	4040	10.46881	80.2543
Grade 8	52	4092	1.03298	81.2872
Grade 9	48	4140	0.95352	82.2408

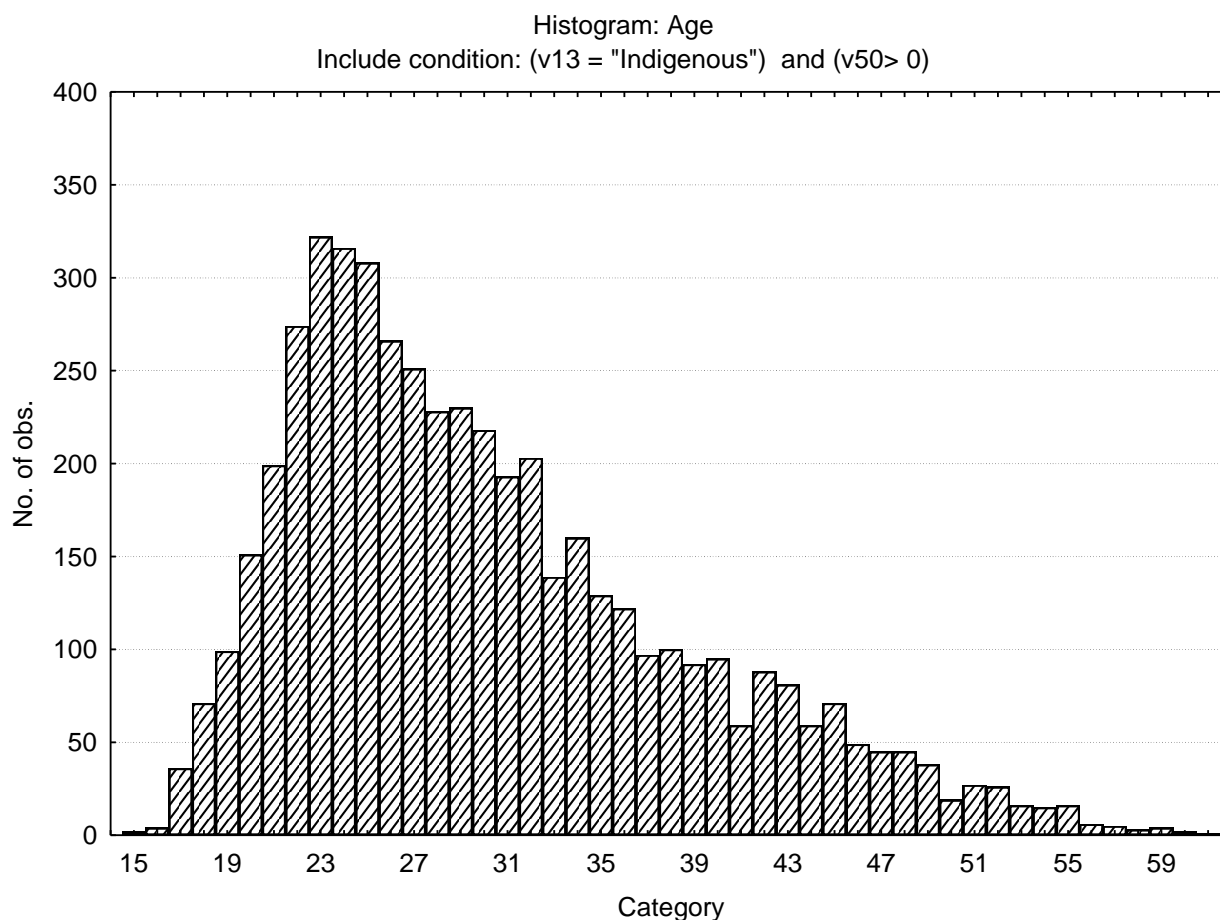
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 7	24	4164	0.47676	82.7175
Post Graduate	166	4330	3.29758	86.0151
Missing	704	5034	13.98490	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	1902	1902	37.78308	37.7831
Setswana	560	2462	11.12435	48.9074
Sesotho	874	3336	17.36194	66.2694
Sepedi	229	3565	4.54907	70.8184
Xitsonga	120	3685	2.38379	73.2022
Tshivenda	66	3751	1.31108	74.5133
siSwati	58	3809	1.15217	75.6655
isiNdebele	32	3841	0.63568	76.3012
isiXhosa	1108	4949	22.01033	98.3115
Missing	85	5034	1.68852	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	5034	5034	100.0000	100.0000
Missing	0	5034	0.0000	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	4908	4908	97.49702	97.4970
European	12	4920	0.23838	97.7354
Coloured	17	4937	0.33770	98.0731
Asian	15	4952	0.29797	98.3711
Missing	82	5034	1.62892	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.21486	8.401959	15.00000	63.00000	4980	54



Sample composition: General Abstract Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1517	1517	28.23376	28.2338
M	3840	5357	71.46845	99.7022
Missing	16	5373	0.29779	100.0000

Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Technikon	1236	1236	23.00391	23.0039
Grade 12	1778	3014	33.09138	56.0953
University Diploma	173	3187	3.21980	59.3151
Degree	409	3596	7.61213	66.9272
Vocational Training	178	3774	3.31286	70.2401
Grade 10 or 11	533	4307	9.91997	80.1601
Grade 8	53	4360	0.98641	81.1465
Grade 9	49	4409	0.91197	82.0584

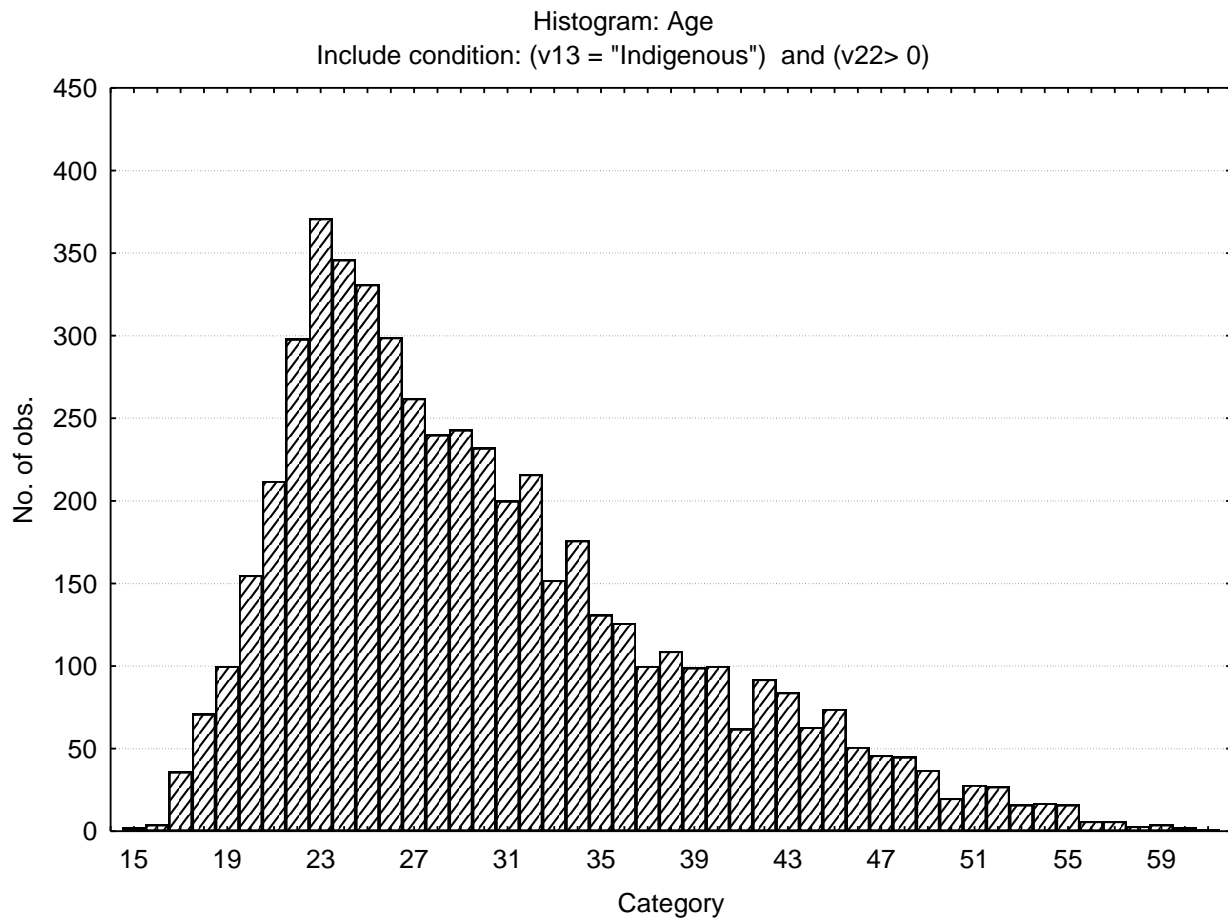
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 7	24	4433	0.44668	82.5051
Post Graduate	220	4653	4.09455	86.5997
Missing	720	5373	13.40034	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	2063	2063	38.39568	38.3957
Setswana	586	2649	10.90638	49.3021
Sesotho	921	3570	17.14126	66.4433
Sepedi	238	3808	4.42956	70.8729
Xitsonga	137	3945	2.54979	73.4227
Tshivenda	71	4016	1.32142	74.7441
siSwati	63	4079	1.17253	75.9166
isiNdebele	33	4112	0.61418	76.5308
isiXhosa	1176	5288	21.88721	98.4180
Missing	85	5373	1.58198	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	5373	5373	100.0000	100.0000
Missing	0	5373	0.0000	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	5239	5239	97.50605	97.5060
European	16	5255	0.29779	97.8038
Coloured	17	5272	0.31640	98.1202
Asian	20	5292	0.37223	98.4925
Missing	81	5373	1.50754	100.0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30.11956	8.330023	15.00000	63.00000	5311	62



Internal consistency reliability for General Reasoning Test Battery subtests

Subtest	Cronbach Coefficient Alpha
General Verbal Reasoning Test	.78
General Numerical Reasoning Test	.70
General Abstract Reasoning Test	.79