

# General Reasoning Test (GRT2)

## Reliability: South Africans, Speaking Indigenous Languages, Updated 2016

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### Sample Composition

The sample consisted of respondents who had completed any of the subtests of the General Reasoning Test battery (GRT2) in the period up to June 2015, via GeneSys for Windows. Since not all the respondents completed all the subtests, biographical information is reported separately for the three tests.

### Sample Composition: General Abstract Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	3903	3903	57,27073	57,2707
F	2888	6791	42,37711	99,6478
U	24	6815	0,35216	100,0000
Missing	0	6815	0,00000	100,0000

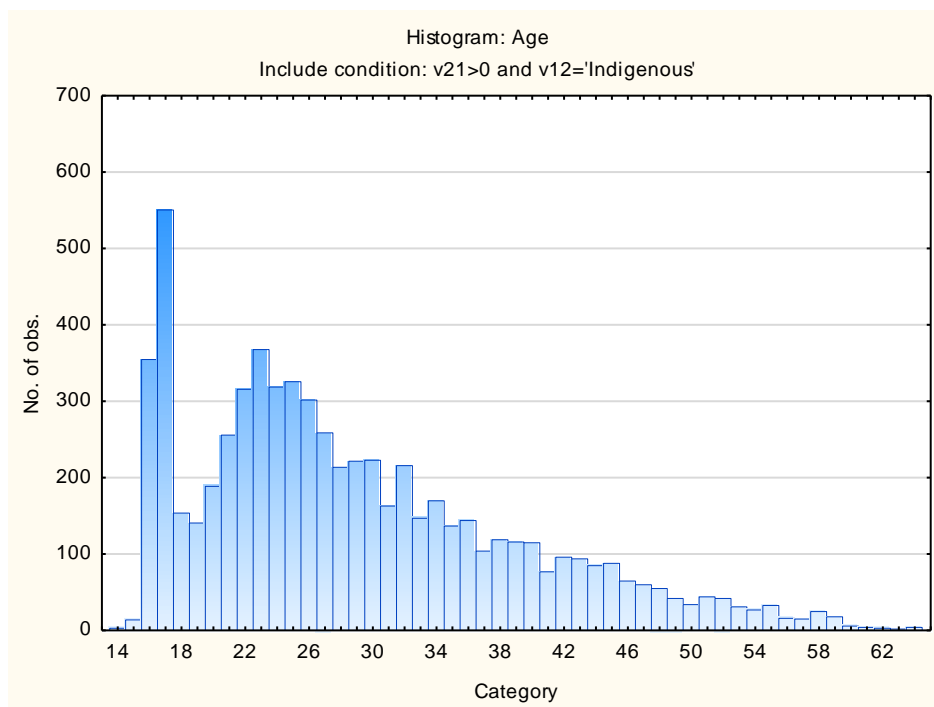
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 12	2579	2579	37,84299	37,8430
Post Graduate	304	2883	4,46075	42,3037
Unknown	67	2950	0,98313	43,2869
Tertiary	1771	4721	25,98679	69,2737
< Matric	1501	6222	22,02494	91,2986
Missing	593	6815	8,70139	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	2250	2250	33,01541	33,0154
isiXhosa	1197	3447	17,56420	50,5796
Sesotho	926	4373	13,58767	64,1673
Sepedi	913	5286	13,39692	77,5642
Setswana	796	6082	11,68012	89,2443
Xitsonga	272	6354	3,99120	93,2355
Tshivenda	162	6516	2,37711	95,6126
siSwati	220	6736	3,22817	98,8408
isiNdebele	79	6815	1,15921	100,0000
Missing	0	6815	0,00000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	6815	6815	100,0000	100,0000
Missing	0	6815	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	6740	6740	98,89949	98,8995
Asian	27	6767	0,39618	99,2957
Coloured	19	6786	0,27880	99,5745
European	13	6799	0,19076	99,7652
Missing	16	6815	0,23478	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	28,91209	10,10725	14,00000	64,00000	6609	206



### Sample Composition: General Numerical Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	3629	3629	56,36844	56,3684
F	2786	6415	43,27431	99,6427
U	23	6438	0,35725	100,0000
Missing	0	6438	0,00000	100,0000

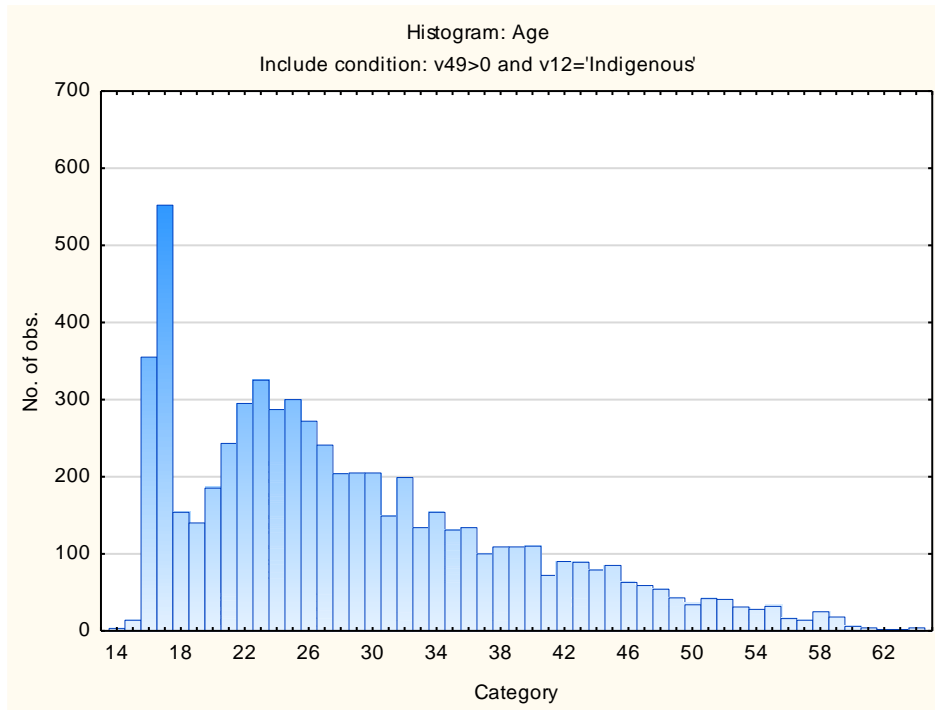
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 12	2520	2520	39,14259	39,1426
Post Graduate	244	2764	3,79000	42,9326
Unknown	67	2831	1,04070	43,9733
Tertiary	1530	4361	23,76514	67,7384
< Matric	1497	5858	23,25256	90,9910
Missing	580	6438	9,00901	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	2106	2106	32,71202	32,7120
isiXhosa	1103	3209	17,13265	49,8447
Sesotho	880	4089	13,66884	63,5135
Sepedi	895	4984	13,90183	77,4153
Setswana	765	5749	11,88257	89,2979
Xitsonga	249	5998	3,86766	93,1656
Tshivenda	154	6152	2,39205	95,5576
siSwati	212	6364	3,29295	98,8506
isiNdebele	74	6438	1,14943	100,0000
Missing	0	6438	0,00000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	6438	6438	100,0000	100,0000
Missing	0	6438	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	6369	6369	98,92824	98,9282
Asian	22	6391	0,34172	99,2700
Coloured	19	6410	0,29512	99,5651
European	10	6420	0,15533	99,7204
Missing	18	6438	0,27959	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	28,88049	10,25806	14,00000	64,00000	6242	196



### Sample Composition: General Verbal Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	3622	3622	56,18117	56,1812
F	2801	6423	43,44656	99,6277
U	24	6447	0,37227	100,0000
Missing	0	6447	0,00000	100,0000

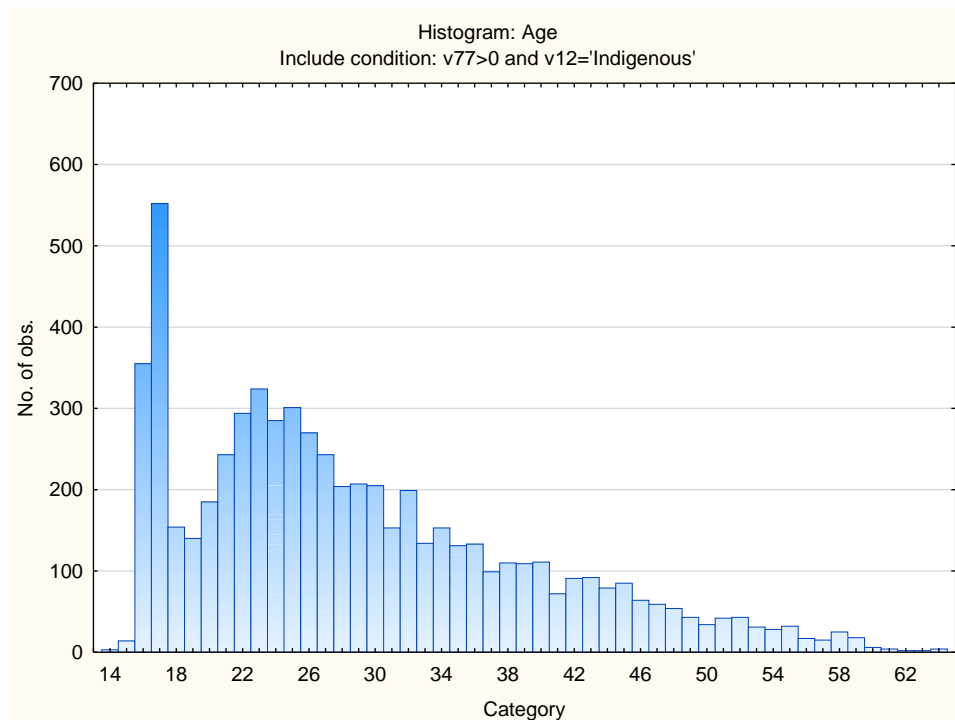
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 12	2513	2513	38,97937	38,9794
Post Graduate	245	2758	3,80022	42,7796
Unknown	67	2825	1,03924	43,8188
Tertiary	1548	4373	24,01117	67,8300
< Matric	1496	5869	23,20459	91,0346
Missing	578	6447	8,96541	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	2111	2111	32,74391	32,7439
isiXhosa	1100	3211	17,06220	49,8061
Sesotho	880	4091	13,64976	63,4559
Sepedi	897	4988	13,91345	77,3693
Setswana	760	5748	11,78843	89,1577
Xitsonga	252	6000	3,90879	93,0665
Tshivenda	158	6158	2,45075	95,5173
siSwati	214	6372	3,31937	98,8367
isiNdebele	75	6447	1,16333	100,0000
Missing	0	6447	0,00000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	6447	6447	100,0000	100,0000
Missing	0	6447	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	6380	6380	98,96076	98,9608
Asian	22	6402	0,34124	99,3020
Coloured	19	6421	0,29471	99,5967
European	10	6431	0,15511	99,7518
Missing	16	6447	0,24818	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	28,91300	10,27716	14,00000	64,00000	6253	194



## Internal Consistency Reliability for General Reasoning Test Battery Subtests

Subtest	Cronbach Coefficient Alpha
General Abstract Reasoning Test	.80
General Numerical Reasoning Test	.72
General Verbal Reasoning Test	.79

Results of lower than 0.75 are possibly related to respondents guessing the answers to items which they may not know. Results should therefore be interpreted with caution. Do not rely on these tests in isolation, but to consider the results as part of a holistic assessment, which incorporates additional sources of information.