

# Critical Reasoning Test (CRTB2)

## Norm: South Africans, Aggregate Population, Updated 2016

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### Sample composition

The sample consisted of South Africans tested by Psytech South Africa and collaborators during the period up to June 2015. Since not all respondents completed all the subtests of the Critical Reasoning Test Battery, biographical characteristics are reported separately for the different subtests.

### Critical Numerical Reasoning Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1547	1547	34,44667	34,4467
M	2910	4457	64,79626	99,2429
U	34	4491	0,75707	100,0000
Missing	0	4491	0,00000	100,0000

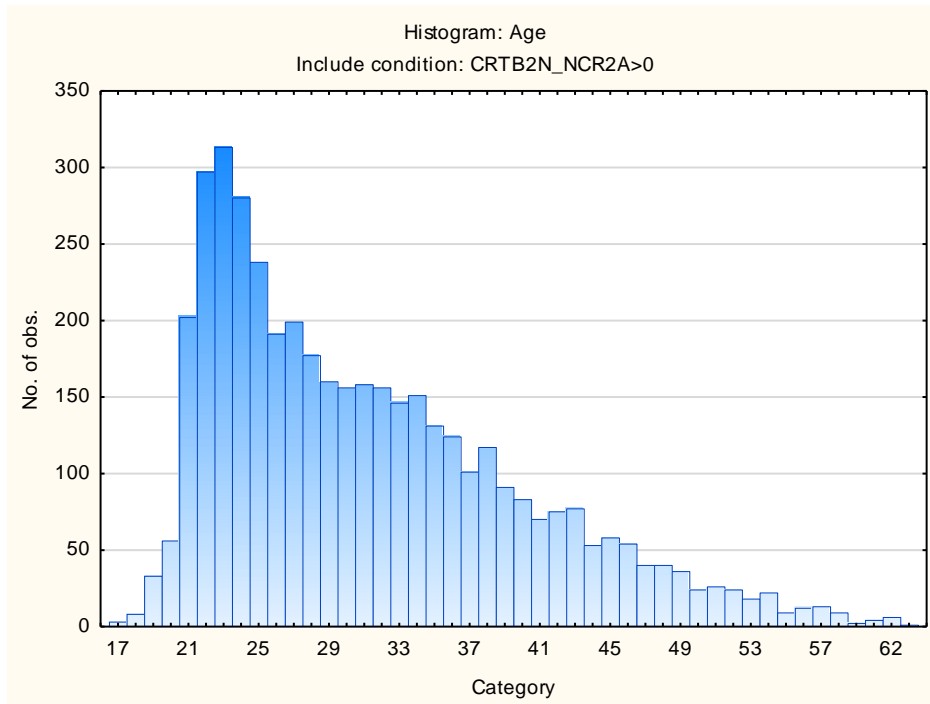
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	1891	1891	42,10644	42,1064
Post Graduate	727	2618	16,18793	58,2944
Grade 12	664	3282	14,78513	73,0795
< Matric	38	3320	0,84614	73,9256
Missing	1171	4491	26,07437	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Xitsonga	58	58	1,29147	1,2915
English	1367	1425	30,43866	31,7301
Setswana	178	1603	3,96348	35,6936
Sesotho	245	1848	5,45536	41,1490
Sepedi	97	1945	2,15988	43,3088
Afrikaans	581	2526	12,93699	56,2458
isiXhosa	278	2804	6,19016	62,4360
isiZulu	436	3240	9,70831	72,1443
Tshivenda	63	3303	1,40281	73,5471
isiNdebele	17	3320	0,37853	73,9256
siSwati	22	3342	0,48987	74,4155
Missing	1149	4491	25,58450	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	1394	1394	31,03986	31,0399
English	1367	2761	30,43866	61,4785
Afrikaans	581	3342	12,93699	74,4155
Missing	1149	4491	25,58450	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1601	1601	35,64908	35,6491
Asian	514	2115	11,44511	47,0942
European	1244	3359	27,69984	74,7940
Coloured	167	3526	3,71855	78,5126
Missing	965	4491	21,48742	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	31,24529	8,714224	17,00000	63,00000	4244	247



### Critical Verbal Reasoning Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	1602	1602	34,22346	34,2235
M	3045	4647	65,05020	99,2737
U	34	4681	0,72634	100,0000
Missing	0	4681	0,00000	100,0000

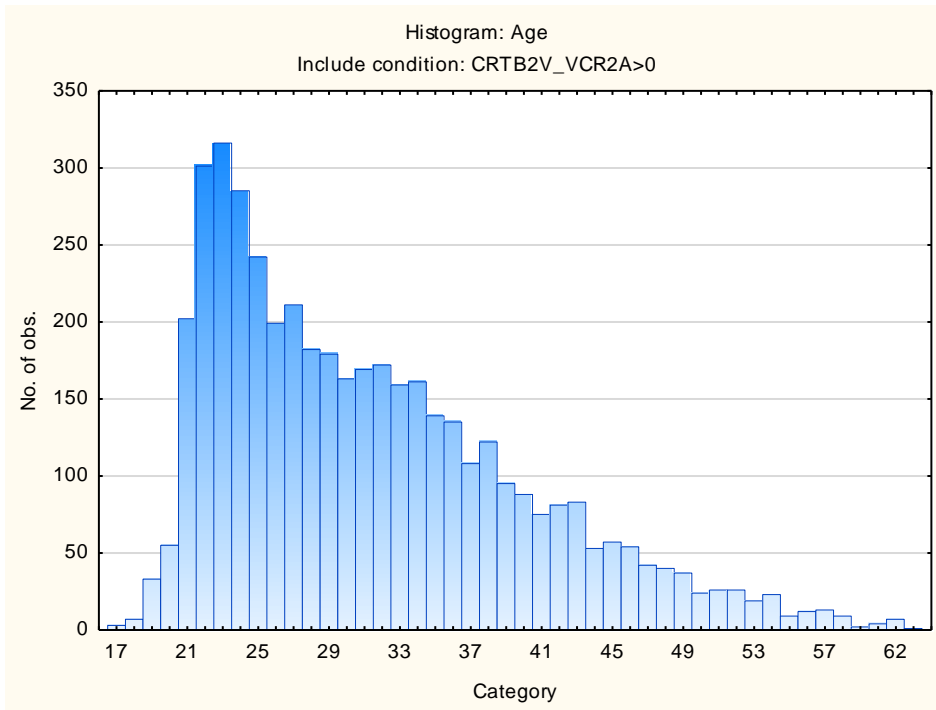
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	1932	1932	41,27323	41,2732
Post Graduate	767	2699	16,38539	57,6586
Grade 12	658	3357	14,05683	71,7154
< Matric	38	3395	0,81179	72,5272
Missing	1286	4681	27,47276	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Xitsonga	59	59	1,26041	1,2604
English	1389	1448	29,67315	30,9336
Setswana	176	1624	3,75988	34,6934
Sesotho	246	1870	5,25529	39,9487
Sepedi	101	1971	2,15766	42,1064
Afrikaans	611	2582	13,05277	55,1592
isiXhosa	280	2862	5,98163	61,1408
isiZulu	436	3298	9,31425	70,4550
Tshivenda	64	3362	1,36723	71,8223
isiNdebele	17	3379	0,36317	72,1854
siSwati	22	3401	0,46999	72,6554
Missing	1280	4681	27,34458	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	1401	1401	29,92950	29,9295
English	1389	2790	29,67315	59,6026
Afrikaans	611	3401	13,05277	72,6554
Missing	1280	4681	27,34458	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1609	1609	34,37300	34,3730
Asian	520	2129	11,10874	45,4817
European	1292	3421	27,60094	73,0827
Coloured	167	3588	3,56761	76,6503
Missing	1093	4681	23,34971	100,0000

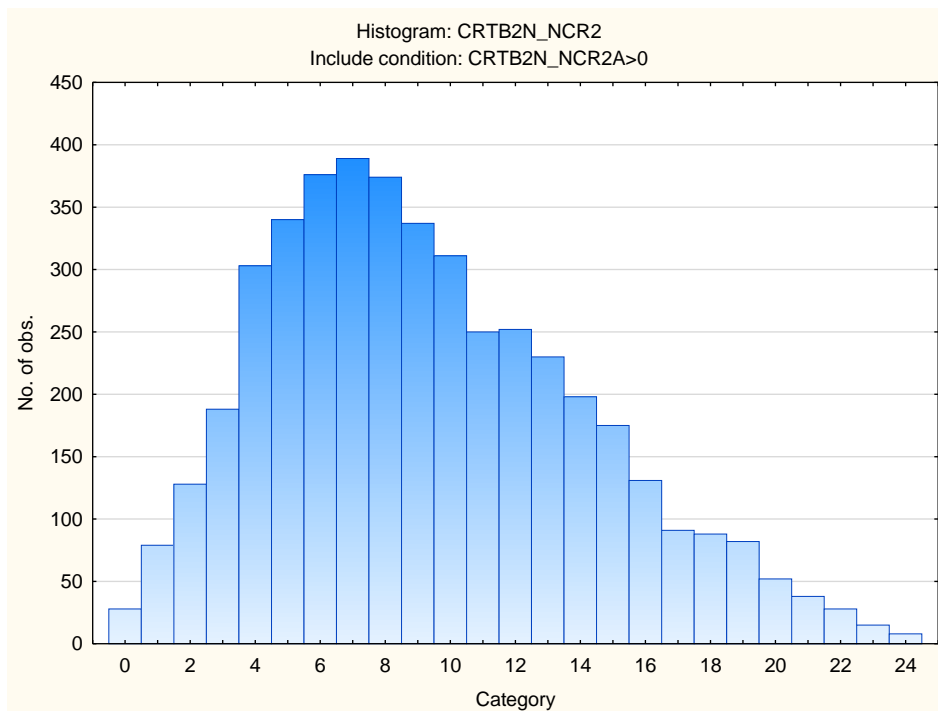
Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	31,32851	8,644202	17,00000	63,00000	4423	258

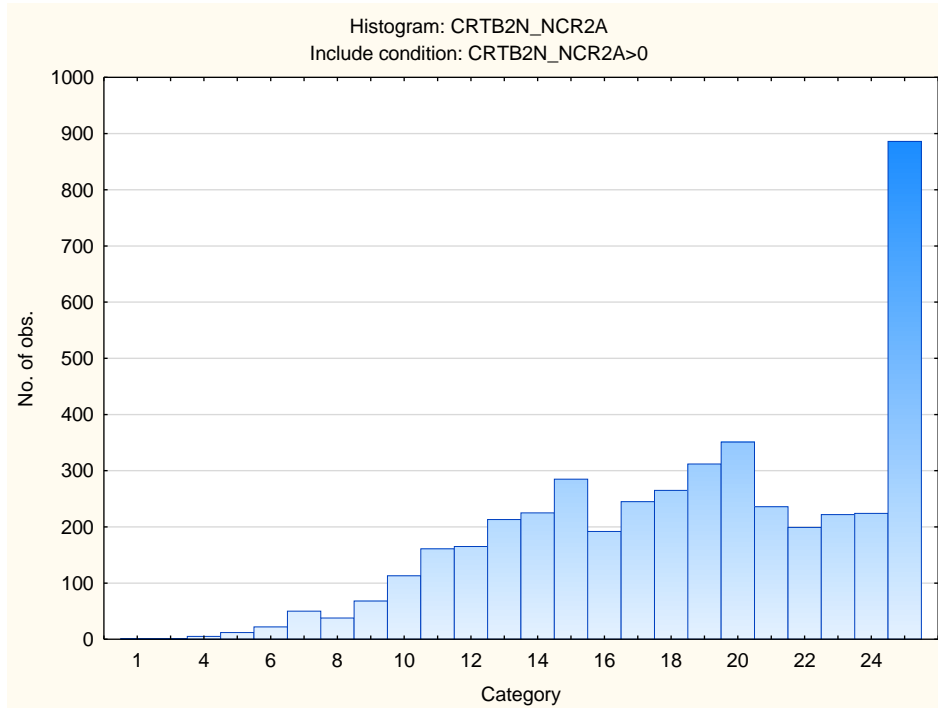


## Descriptive statistics and frequency distributions on Critical Reasoning Test Battery subtests

### Critical Numerical Reasoning Test

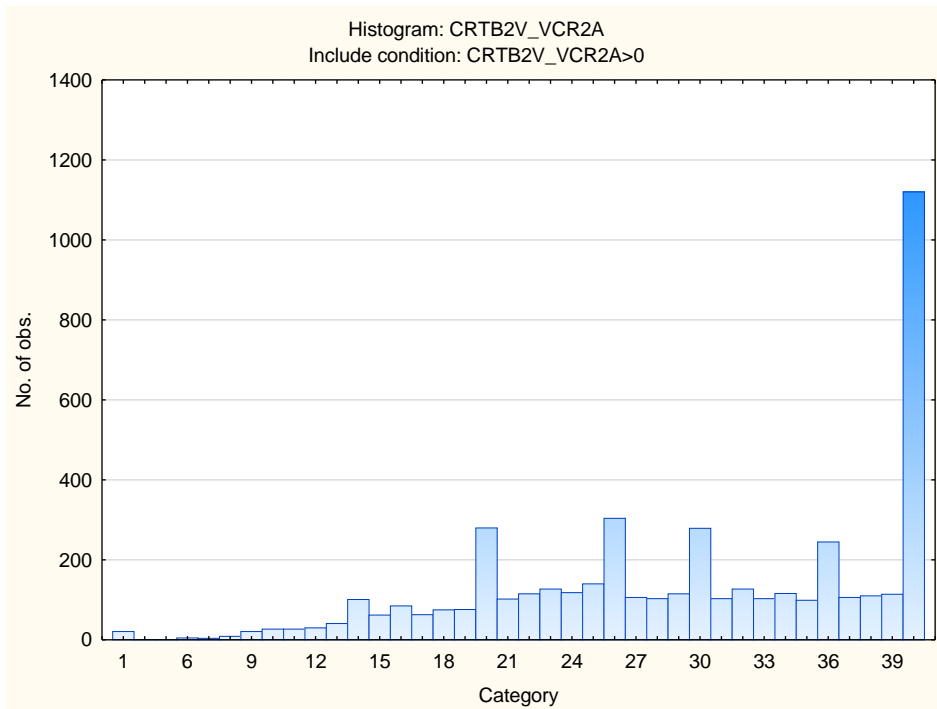
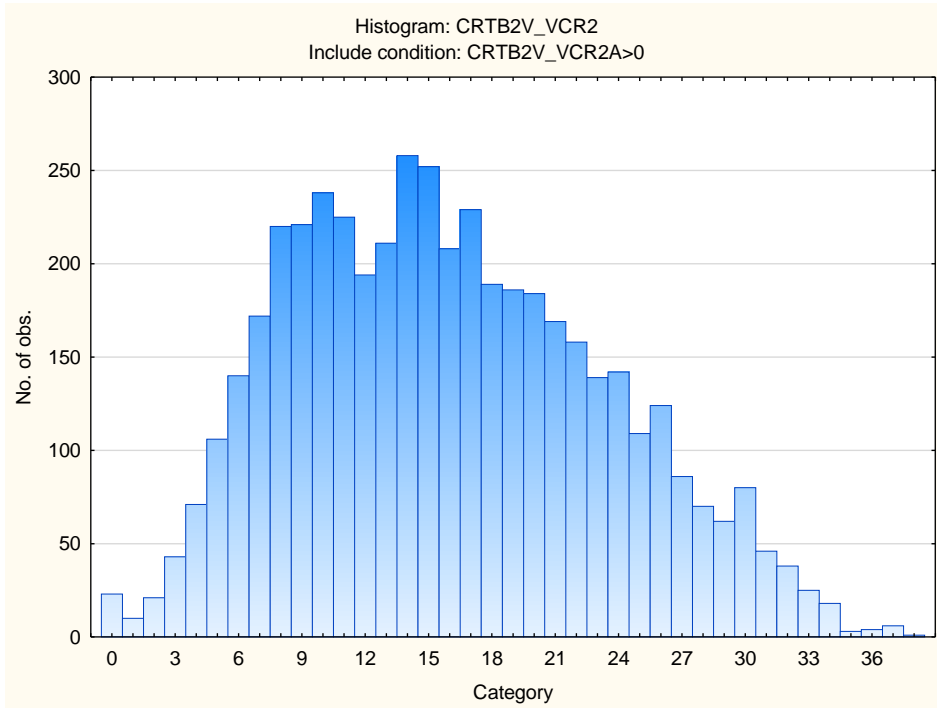
Variable	Descriptive Statistics					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Critical Numerical Reasoning Test	9,32131	4,848377	0,000000	24,00000	4491	0
Critical Numerical Reasoning Items Attempted	18,58784	5,128897	1,000000	25,00000	4491	0





## Critical Verbal Reasoning Test

Variable	Descriptive Statistics					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Critical Verbal Reasoning Test	15,93463	7,368621	0,000000	38,00000	4681	0
Critical Verbal Reasoning Items Attempted	29,58535	8,989478	1,000000	40,00000	4681	0





## Stanine table

Scales	Stanine Groups								
	S9_1	S9_2	S9_3	S9_4	S9_5	S9_6	S9_7	S9_8	S9_9
Critical Numerical Reasoning	0-2	3-6	7-10	11-14	15-17	18-21	22-25	26-28	29-38
Critical Numerical Items Attempted	1-13	14-18	19-22	23-27	28-31	32-36	37-40		
Critical Verbal Reasoning	0-0	1-2	3-5	6-7	8-10	11-12	13-15	16-17	18-24
Critical Verbal Items Attempted	1-9	10-12	13-14	15-17	18-19	20-22	23-24	25-25	