

Critical Reasoning Test Battery – item-banked (CRTBi) – Norm Group 1 South Africans, Aggregate Population, Updated 2021

Sample Composition

The sample consisted of South Africans tested by Psytech South Africa and collaborators from June 2015 to March 2021. Since not all respondents completed all the subtests of the CRTBi, 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
M	623	623	57.20845	57.2084
F	465	1088	42.69972	99.9082
U	1	1089	0.09183	100.0000
Missing	0	1089	0.00000	100.0000

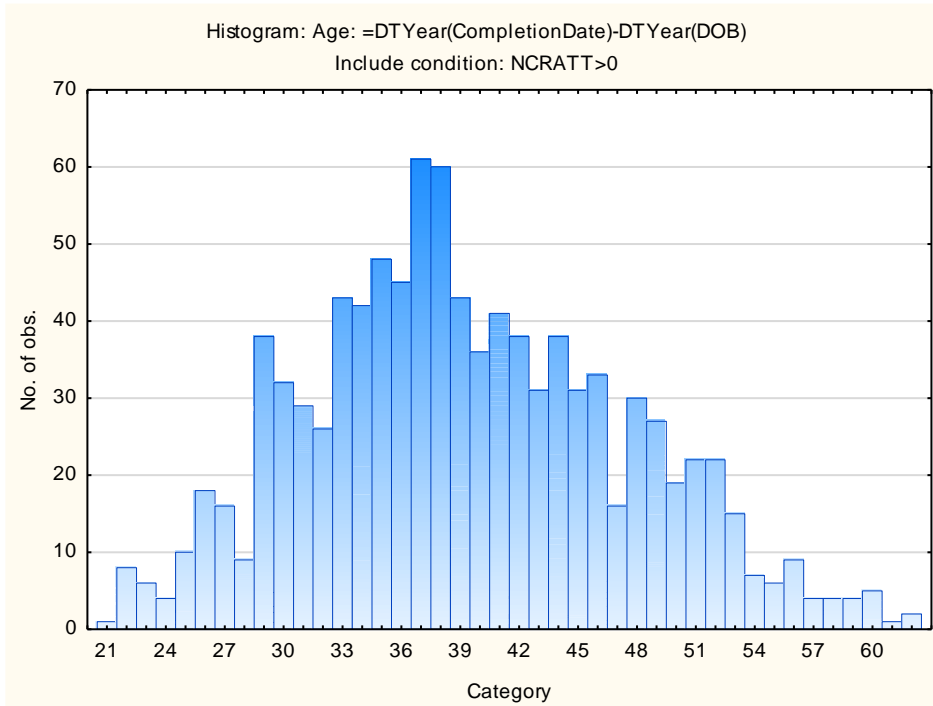
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 12	28	28	2.57117	2.5712
Post Graduate	460	488	42.24059	44.8118
Tertiary	446	934	40.95500	85.7668
Tertiary Cert / Trade	87	1021	7.98898	93.7557
Missing	68	1089	6.24426	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
European	180	180	16.52893	16.5289
Coloured	61	241	5.60147	22.1304
African	553	794	50.78053	72.9109
Indian	76	870	6.97888	79.8898
Asian	8	878	0.73462	80.6244
Missing	211	1089	19.37557	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
English	609	609	55.92287	55.9229
Afrikaans	117	726	10.74380	66.6667
Setswana	41	767	3.76492	70.4316
isiXhosa	31	798	2.84665	73.2782
Sepedi	16	814	1.46924	74.7475
Sesotho	19	833	1.74472	76.4922
siSwati	4	837	0.36731	76.8595
isiZulu	39	876	3.58127	80.4408
Xitsonga	6	882	0.55096	80.9917
isiNdebele	5	887	0.45914	81.4509
Tshivenda	9	896	0.82645	82.2773
Missing	193	1089	17.72268	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	609	609	55.92287	55.9229
Afrikaans	117	726	10.74380	66.6667
Indigenous	170	896	15.61065	82.2773
Missing	193	1089	17.72268	100.0000

Variable	Descriptive Statistics: Age				N	No.cases Missing
	Mean	Std.Dev	Minimum	Maximum		
Age	39.32755	8.070037	21.00000	62.00000	980	109



Critical Verbal Reasoning Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	624	624	57.19523	57.1952
F	466	1090	42.71311	99.9083
U	1	1091	0.09166	100.0000
Missing	0	1091	0.00000	100.0000

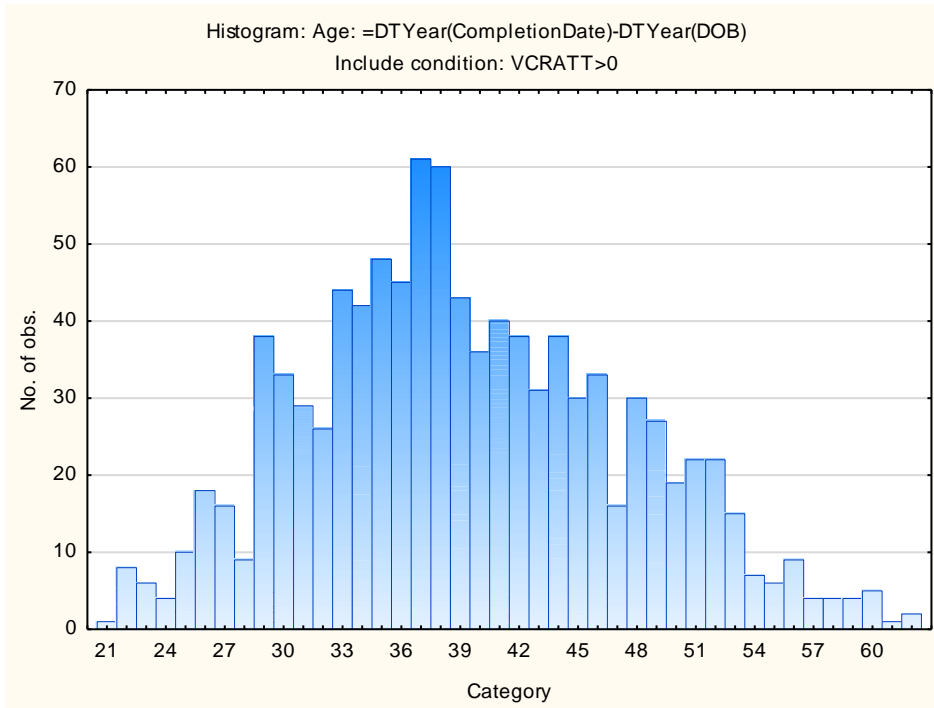
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Grade 12	28	28	2.56645	2.5665
Post Graduate	460	488	42.16315	44.7296
Tertiary	447	935	40.97159	85.7012
Tertiary Cert / Trade	87	1022	7.97434	93.6755
Missing	69	1091	6.32447	100.0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
European	180	180	16.49863	16.4986
Coloured	61	241	5.59120	22.0898
African	553	794	50.68744	72.7773
Indian	77	871	7.05775	79.8350
Asian	8	879	0.73327	80.5683
Missing	212	1091	19.43171	100.0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
English	609	609	55.82035	55.8203
Afrikaans	117	726	10.72411	66.5445
Setswana	41	767	3.75802	70.3025
isiXhosa	31	798	2.84143	73.1439
Sepedi	16	814	1.46654	74.6104
Sesotho	19	833	1.74152	76.3520
siSwati	4	837	0.36664	76.7186
isiZulu	40	877	3.66636	80.3850
Xitsonga	6	883	0.54995	80.9349
isiNdebele	5	888	0.45830	81.3932
Tshivenda	9	897	0.82493	82.2181
Missing	194	1091	17.78185	100.0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
English	609	609	55.82035	55.8203
Afrikaans	117	726	10.72411	66.5445
Indigenous	171	897	15.67369	82.2181
Missing	194	1091	17.78185	100.0000

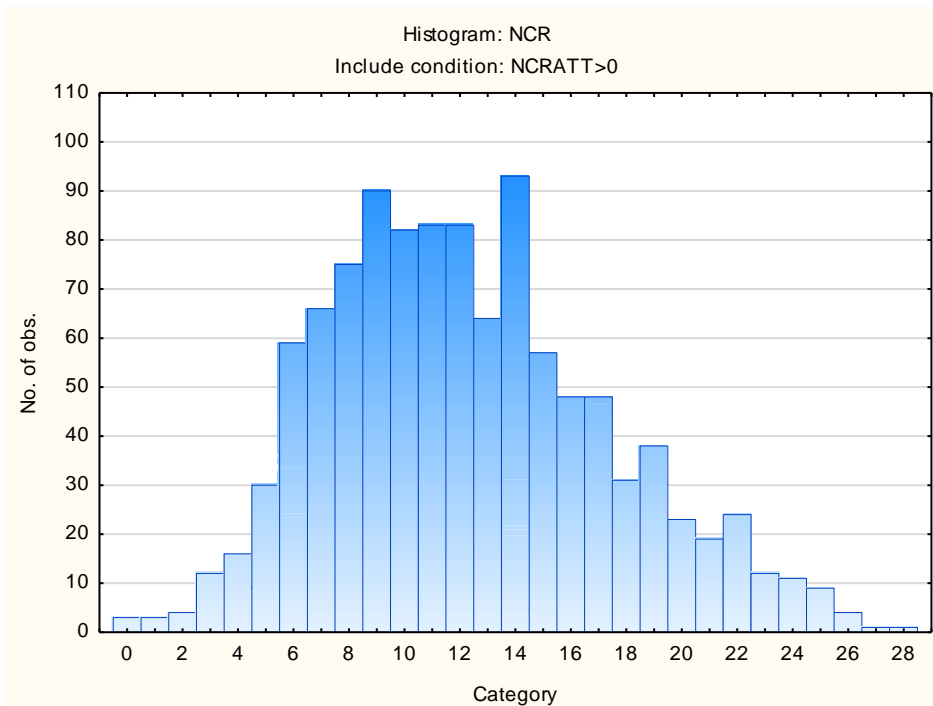
Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	39.30408	8.075827	21.00000	62.00000	980	111



Descriptive statistics and frequency distributions on Critical Reasoning Test Battery subtests

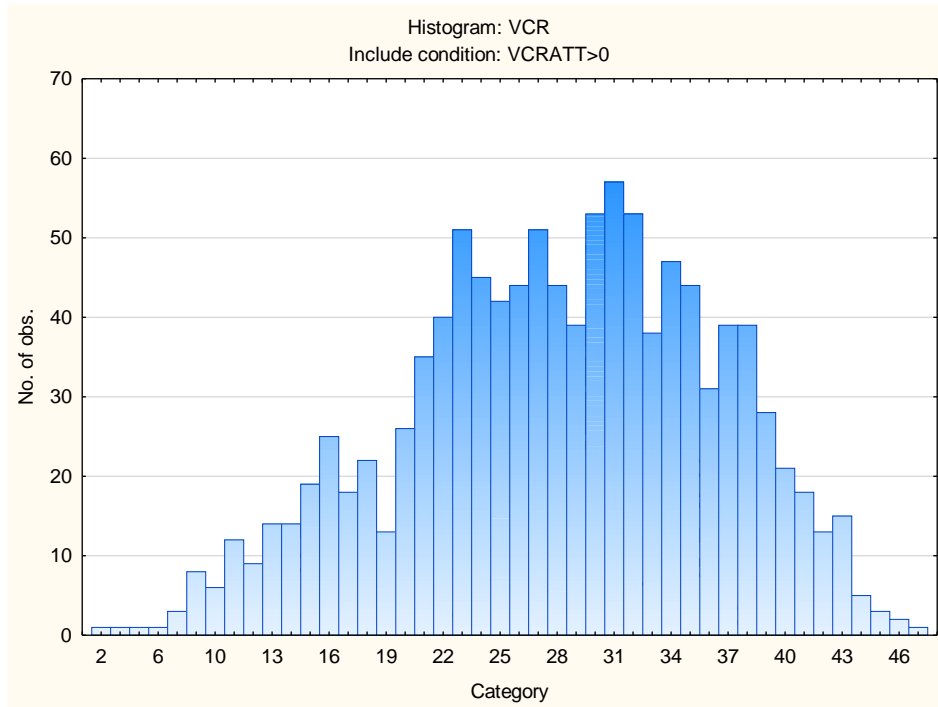
Critical Numerical Reasoning Test

Variable	Descriptive Statistics					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
NCR	12.28650	5.063441	0.00	28.00000	1089	0



Critical Verbal Reasoning Test

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
VCR	28.03300	8.227321	2.000000	47.000000	1091	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 Verbal Reasoning	2-13	14-17	18-21	22-25	26-30	31-34	35-38	39-42	43-47
Critical Numerical Reasoning	0-3	4-5	6-8	9-11	12-13	14-16	17-18	19-21	22-28