

Abstract Reasoning Test (ART)

Reliability: South Africans, isiZulu Speakers, 2017

Composition of the Sample

Compiled from raw data on 248 respondents collected by Psytech SA and collaborators, via GeneSys for Windows and GeneSys Online, in the period between March 2012 and May 2017.

Biographical Composition of the Abstract Reasoning Test

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
F	112	112	45,16129	45,1613
M	133	245	53,62903	98,7903
U	3	248	1,20968	100,0000
Missing	0	248	0,00000	100,0000

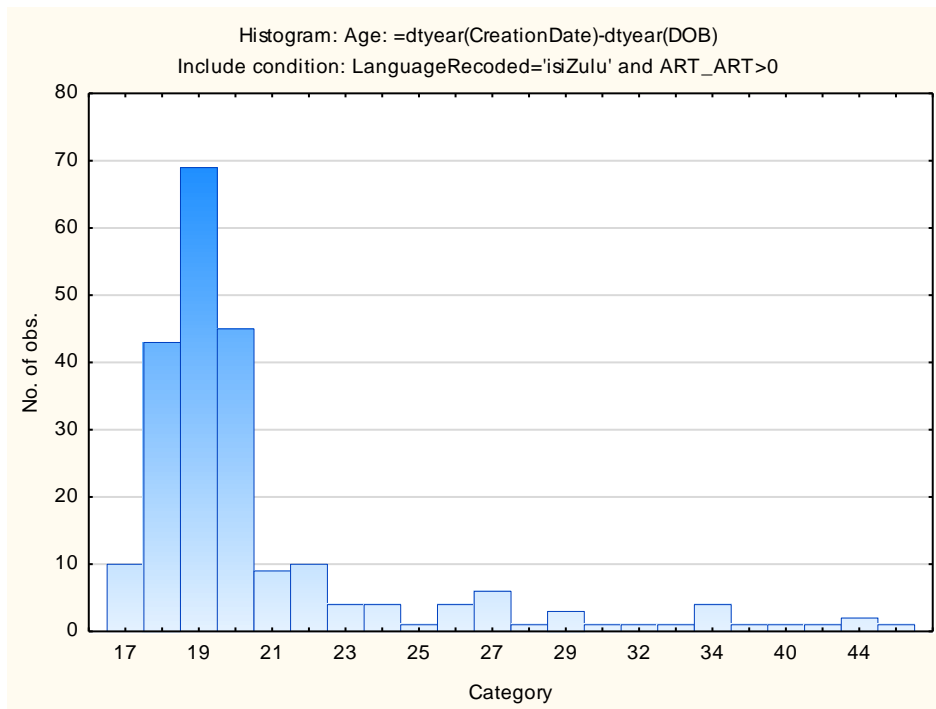
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	35	35	14,11290	14,1129
Grade 12	190	225	76,61290	90,7258
Post Graduate	16	241	6,45161	97,1774
< Matric	2	243	0,80645	97,9839
Missing	5	248	2,01613	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	240	240	96,77419	96,7742
European	2	242	0,80645	97,5806
Asian	3	245	1,20968	98,7903
Missing	3	248	1,20968	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	248	248	100,0000	100,0000
Missing	0	248	0,0000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	248	248	100,0000	100,0000
Missing	0	248	0,0000	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	20,91892	4,918586	17,00000	48,00000	222	26



Cronbach Coefficient Alpha and Standardised Alpha for Abstract Reasoning Test

Subtest	Cronbach Coefficient Alpha	Standardised Alpha
Abstract Reasoning Test	0,82	0,82

Split-half Reliability

Subtest	Corr. 1st & 2nd half	Attenuation corrected
Abstract Reasoning Test	0,72	---

Subtest	Split-half reliability	Guttman split-half
Abstract Reasoning Test	0,84	0,84

The items were split into odd and even numbers.

There are various ways of calculating reliability. We have reported on the calculations we did.

Standard Error of Measurement

Subtest	SEM	SD	Reliability
Abstract Reasoning Test	2,24922026	5,301463	0,82