

# Abstract Reasoning Test (ART)

## Reliability: South Africans, Sesotho Speakers, 2017

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### Composition of the Sample

Compiled from raw data on 105 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	45	45	42,85714	42,8571
M	56	101	53,33333	96,1905
U	4	105	3,80952	100,0000
Missing	0	105	0,00000	100,0000

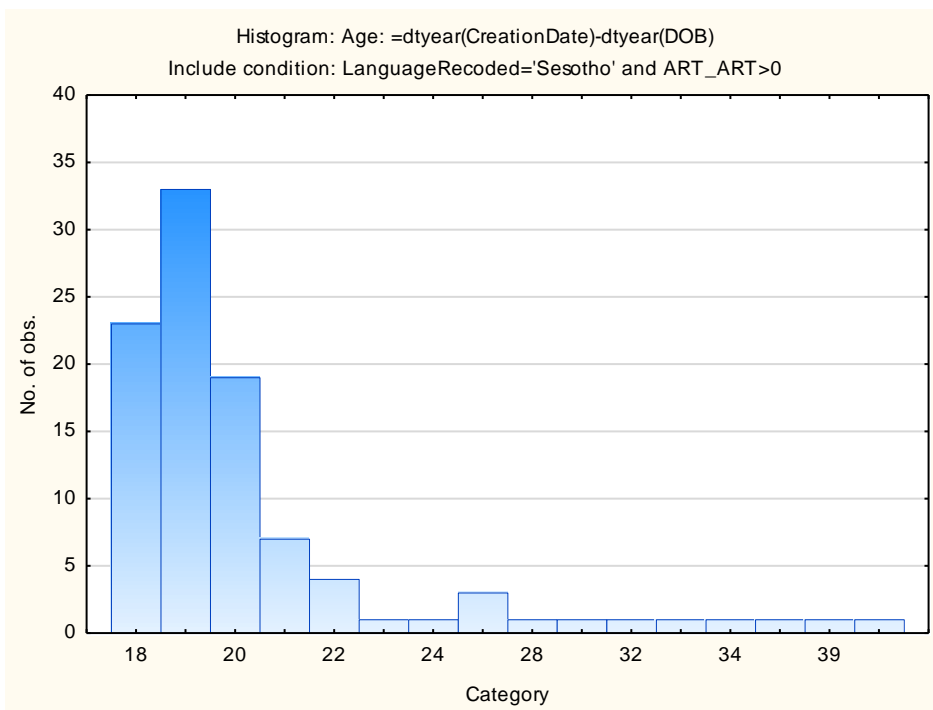
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	6	6	5,71429	5,7143
Grade 12	91	97	86,66667	92,3810
Post Graduate	5	102	4,76190	97,1429
< Matric	2	104	1,90476	99,0476
Missing	1	105	0,95238	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	105	105	100,0000	100,0000
Missing	0	105	0,0000	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Sesotho	105	105	100,0000	100,0000
Missing	0	105	0,0000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	105	105	100,0000	100,0000
Missing	0	105	0,0000	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	20,74747	4,456922	18,00000	41,00000	99	6



## Cronbach Coefficient Alpha and Standardised Alpha for Abstract Reasoning Test

Subtest	Cronbach Coefficient Alpha	Standardised Alpha
Abstract Reasoning Test	0,80	0,80

## Split-half Reliability

Subtest	Corr. 1st & 2nd half	Attenuation corrected
Abstract Reasoning Test	0,74	---

Subtest	Split-half reliability	Guttman split-half
Abstract Reasoning Test	0,85	0,85

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	2,23250234	4,992027	0,80