

# Abstract Reasoning Test (ART)

## Reliability: South Africans, Afrikaans Speakers, 2017

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### Composition of the Sample

Compiled from raw data on 154 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	71	71	46,10390	46,1039
M	70	141	45,45455	91,5584
U	13	154	8,44156	100,0000
Missing	0	154	0,00000	100,0000

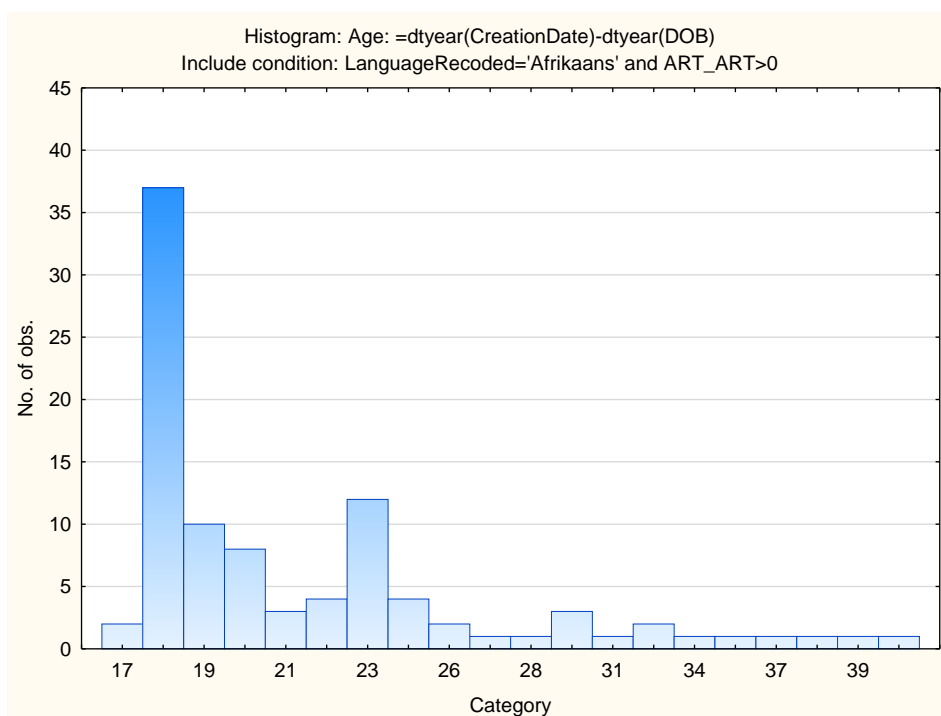
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	34	34	22,07792	22,0779
Grade 12	79	113	51,29870	73,3766
Post Graduate	31	144	20,12987	93,5065
< Matric	5	149	3,24675	96,7532
Missing	5	154	3,24675	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1	1	0,64935	0,6494
Coloured	8	9	5,19481	5,8442
European	141	150	91,55844	97,4026
Missing	4	154	2,59740	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Afrikaans	154	154	100,0000	100,0000
Missing	0	154	0,0000	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Afrikaans	154	154	100,0000	100,0000
Missing	0	154	0,0000	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	21,73958	5,421681	17,00000	42,00000	96	58



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

<b>Subtest</b>	<b>Cronbach Coefficient Alpha</b>	<b>Standardised Alpha</b>
Abstract Reasoning Test	0,84	0,85

## Split-half Reliability

<b>Subtest</b>	<b>Corr. 1st &amp; 2nd half</b>	<b>Attenuation corrected</b>
Abstract Reasoning Test	0,71	0,98

<b>Subtest</b>	<b>Split-half reliability</b>	<b>Guttman split-half</b>
Abstract Reasoning Test	0,83	0,83

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

<b>Subtest</b>	<b>SEM</b>	<b>SD</b>	<b>Reliability</b>
Abstract Reasoning Test	2,2240272	5,560068	0,84