

Technical Test Battery (TTB2)

Norm Group: SA Aggregate Population, Updated 2016

Norm Type:

Standard Deviation Norm

Sample Composition

The sample consisted of respondents who had completed any of the subtests of the Technical Test Battery (TTB2) battery in the period up to June 2015, via GeneSys for Windows. Since not all the respondents completed all the subtests, biographical information is reported separately for the three tests.

Mechanical Reasoning Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	2785	2785	66,69061	66,6906
F	1378	4163	32,99808	99,6887
U	13	4176	0,31130	100,0000
Missing	0	4176	0,00000	100,0000

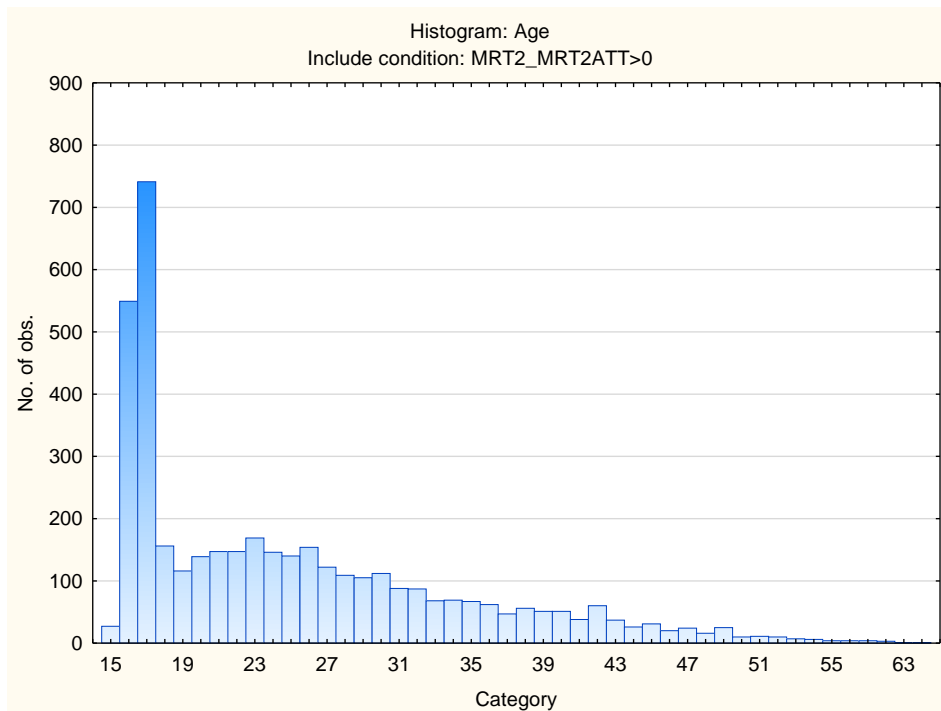
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	359	359	8,59674	8,5967
< Matric	1562	1921	37,40421	46,0010
Grade 12	854	2775	20,45019	66,4511
Post Graduate	6	2781	0,14368	66,5948
Missing	1395	4176	33,40517	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	688	688	16,47510	16,4751
English	380	1068	9,09962	25,5747
isiXhosa	288	1356	6,89655	32,4713
Afrikaans	270	1626	6,46552	38,9368
Sepedi	434	2060	10,39272	49,3295
siSwati	99	2159	2,37069	51,7002
isiNdebele	25	2184	0,59866	52,2989
Setswana	158	2342	3,78352	56,0824
Xitsonga	81	2423	1,93966	58,0220
Sesotho	350	2773	8,38123	66,4033
Tshivenda	47	2820	1,12548	67,5287
Missing	1356	4176	32,47126	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	2170	2170	51,96360	51,9636
English	380	2550	9,09962	61,0632
Afrikaans	270	2820	6,46552	67,5287
Missing	1356	4176	32,47126	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	2513	2513	60,17720	60,1772
European	311	2824	7,44732	67,6245
Coloured	160	2984	3,83142	71,4559
Asian	131	3115	3,13697	74,5929
Missing	1061	4176	25,40709	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	25,01354	9,203432	15,00000	69,00000	4063	113



Spatial Reasoning Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	1898	1898	87,62696	87,6270
F	264	2162	12,18837	99,8153
U	4	2166	0,18467	100,0000
Missing	0	2166	0,00000	100,0000

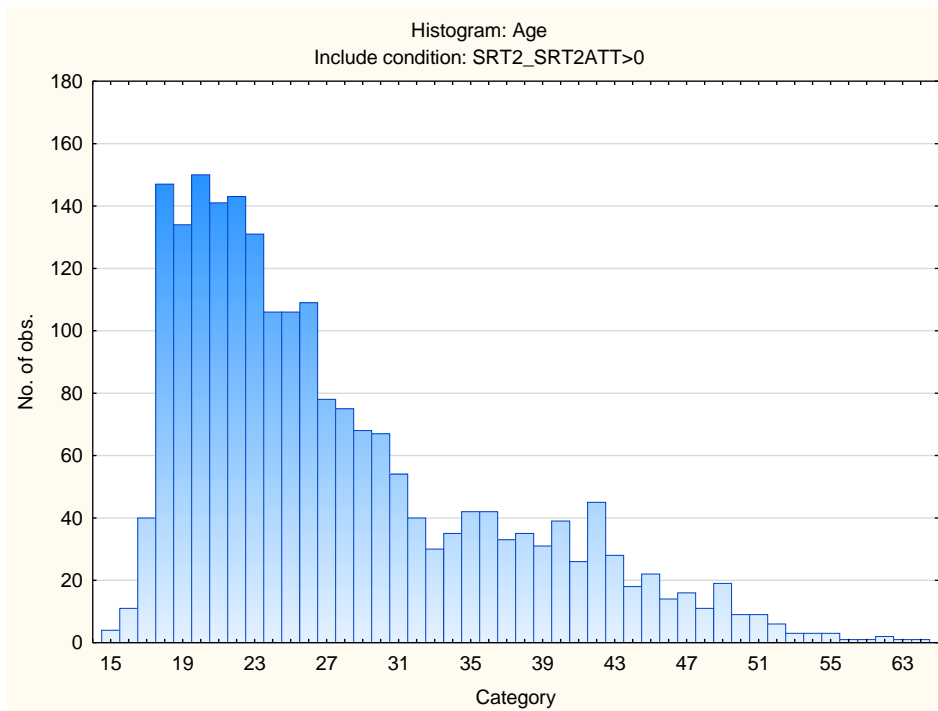
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	360	360	16,62050	16,6205
< Matric	216	576	9,97230	26,5928
Grade 12	821	1397	37,90397	64,4968
Post Graduate	1	1398	0,04617	64,5429
Missing	768	2166	35,45706	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	424	424	19,57525	19,5753
English	230	654	10,61865	30,1939
isiXhosa	273	927	12,60388	42,7978
Afrikaans	244	1171	11,26500	54,0628
Sepedi	92	1263	4,24746	58,3102
siSwati	11	1274	0,50785	58,8181
isiNdebele	11	1285	0,50785	59,3259
Setswana	43	1328	1,98523	61,3112
Xitsonga	33	1361	1,52355	62,8347
Sesotho	252	1613	11,63435	74,4691
Tshivenda	14	1627	0,64635	75,1154
Missing	539	2166	24,88458	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	1153	1153	53,23176	53,2318
English	230	1383	10,61865	63,8504
Afrikaans	244	1627	11,26500	75,1154
Missing	539	2166	24,88458	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	1244	1244	57,43306	57,4331
European	238	1482	10,98800	68,4211
Coloured	149	1631	6,87904	75,3001
Asian	67	1698	3,09326	78,3934
Missing	468	2166	21,60665	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	27,59418	8,749419	15,00000	69,00000	2129	37



Visual Acuity Test: Biographical Composition

Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	200	200	84,03361	84,0336
F	38	238	15,96639	100,0000
Missing	0	238	0,00000	100,0000

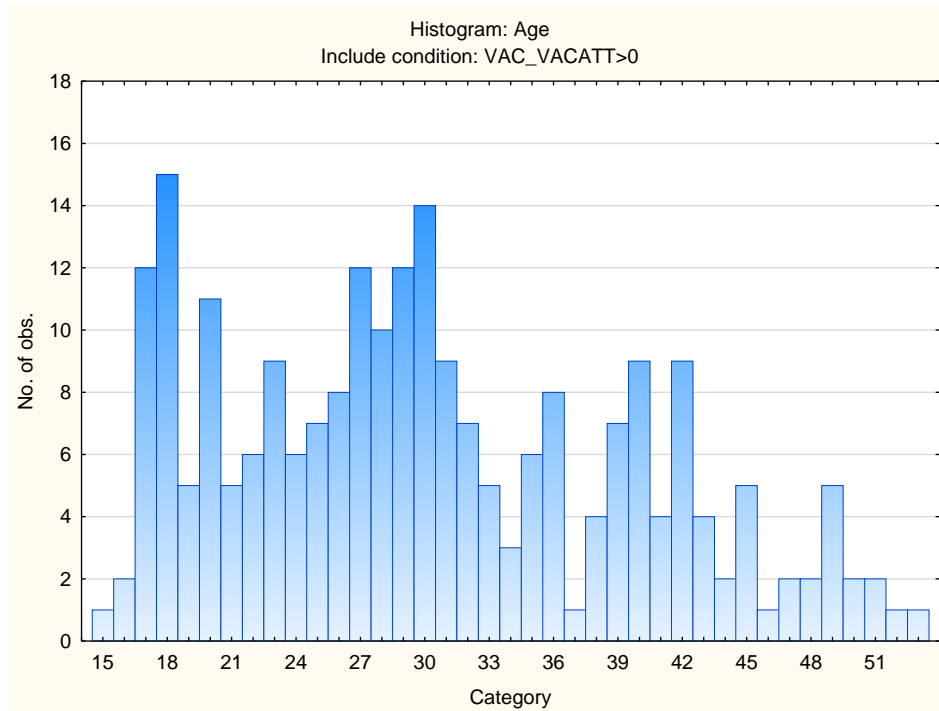
Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	59	59	24,78992	24,7899
< Matric	6	65	2,52101	27,3109
Grade 12	42	107	17,64706	44,9580
Post Graduate	1	108	0,42017	45,3782
Missing	130	238	54,62185	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
isiZulu	26	26	10,92437	10,9244
English	22	48	9,24370	20,1681
isiXhosa	7	55	2,94118	23,1092
Afrikaans	37	92	15,54622	38,6555
Setswana	1	93	0,42017	39,0756
Xitsonga	1	94	0,42017	39,4958
Sesotho	13	107	5,46218	44,9580
Missing	131	238	55,04202	100,0000

Category	Frequency table: Language Group			
	Count	Cumulative Count	Percent	Cumulative Percent
Indigenous	48	48	20,16807	20,1681
English	22	70	9,24370	29,4118
Afrikaans	37	107	15,54622	44,9580
Missing	131	238	55,04202	100,0000

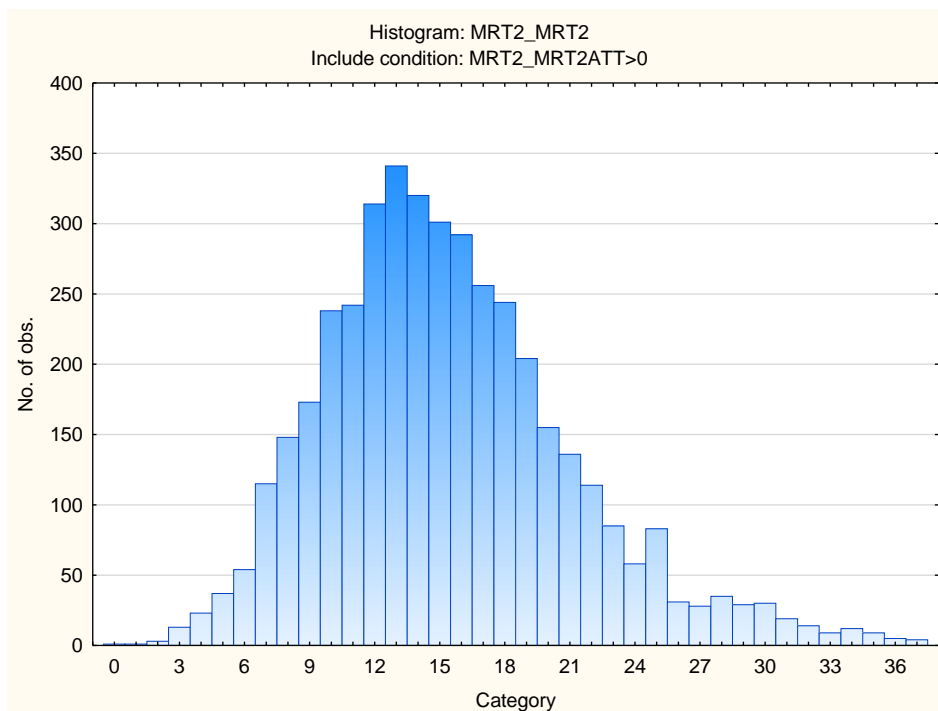
Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	51	51	21,42857	21,4286
European	51	102	21,42857	42,8571
Coloured	6	108	2,52101	45,3782
Asian	1	109	0,42017	45,7983
Missing	129	238	54,20168	100,0000

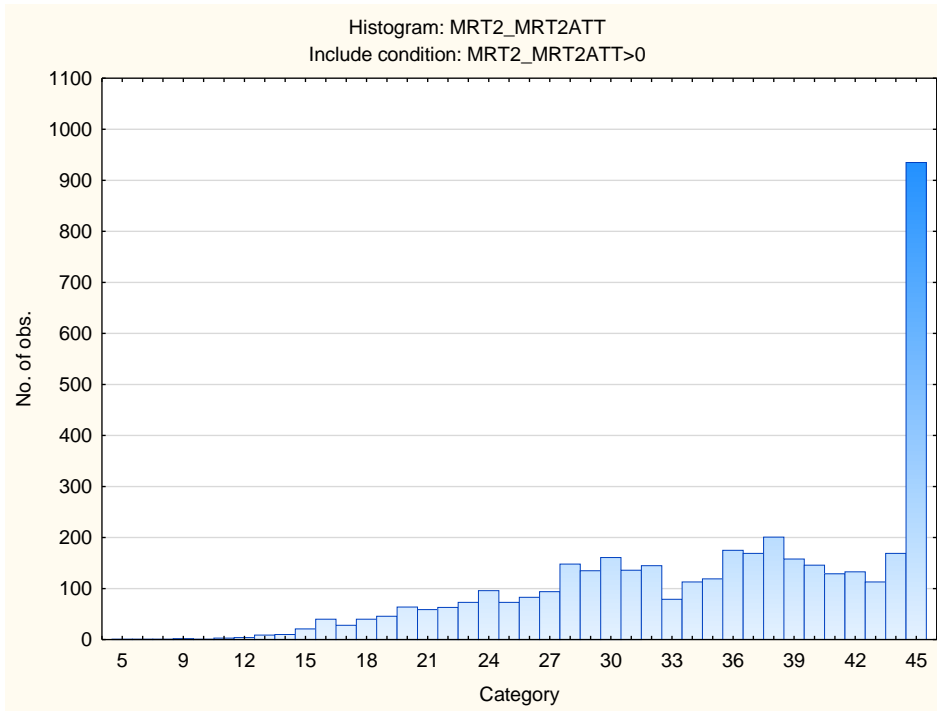
Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	30,30342	9,504789	15,00000	59,00000	234	4



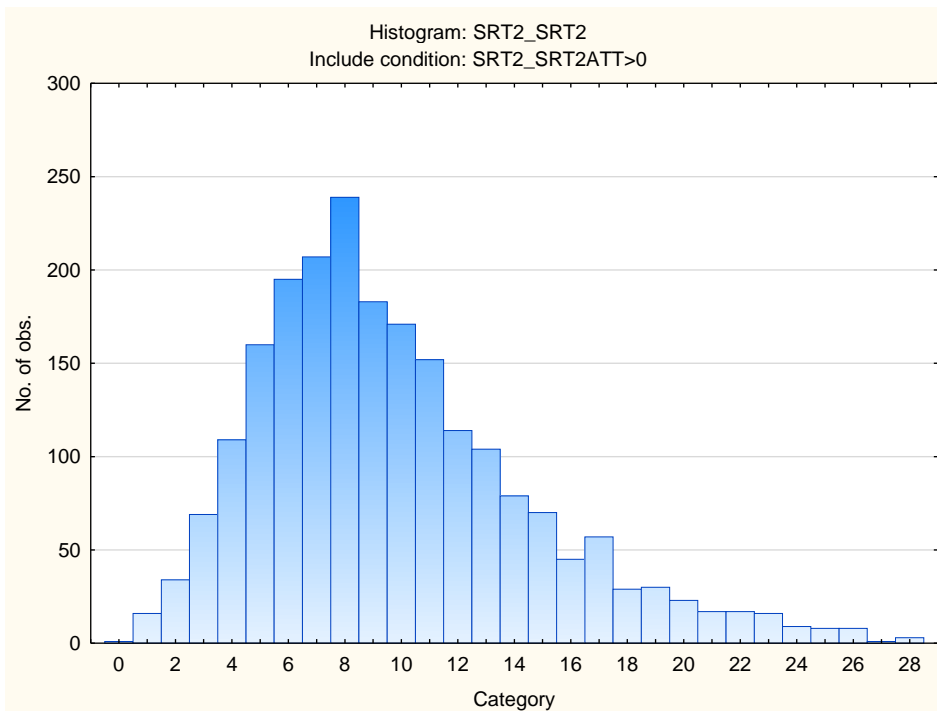
Descriptive Statistics on Technical Test Battery Subtests

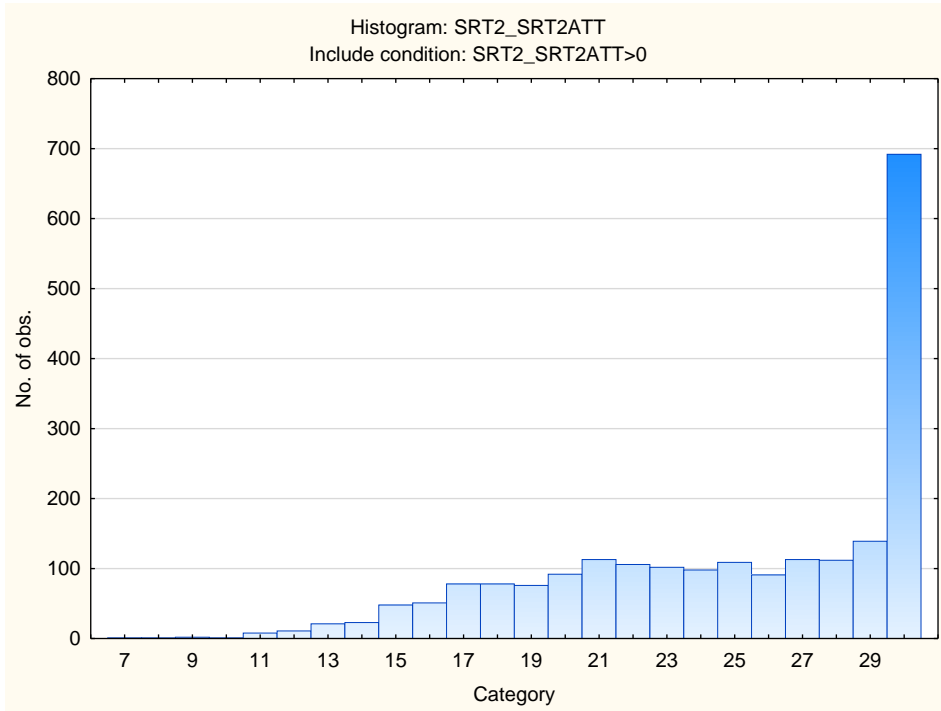
Variable	Descriptive Statistics: Mechanical Reasoning Test					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases
Mechanical Reasoning	15,39200	5,744861	0,000000	37,00000	4176	0
Mechanical Reasoning Items Attempted	35,34866	8,547750	5,000000	45,00000	4176	0



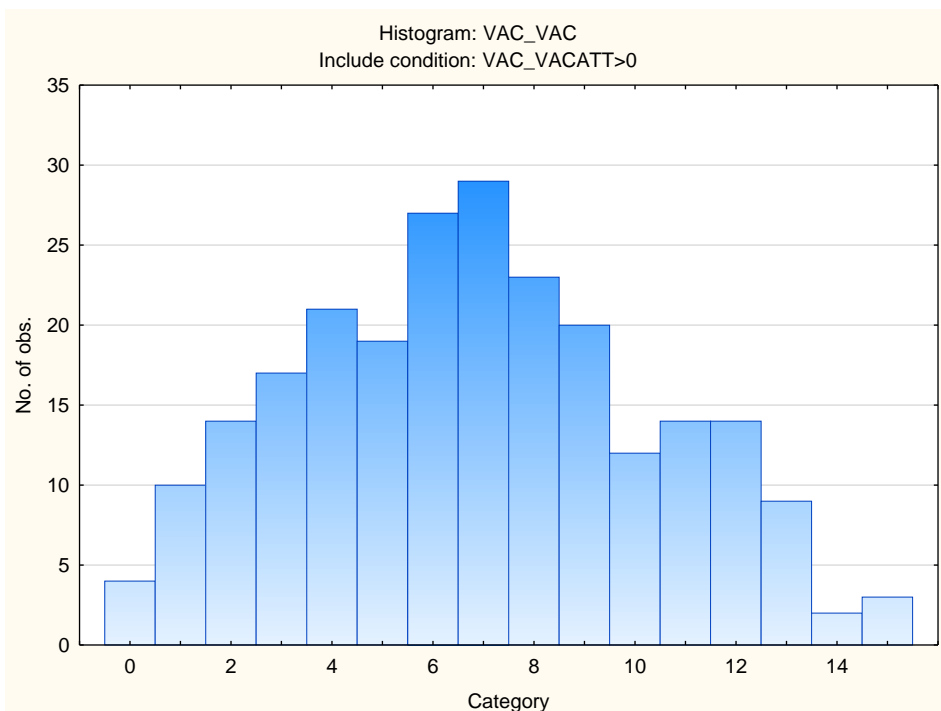


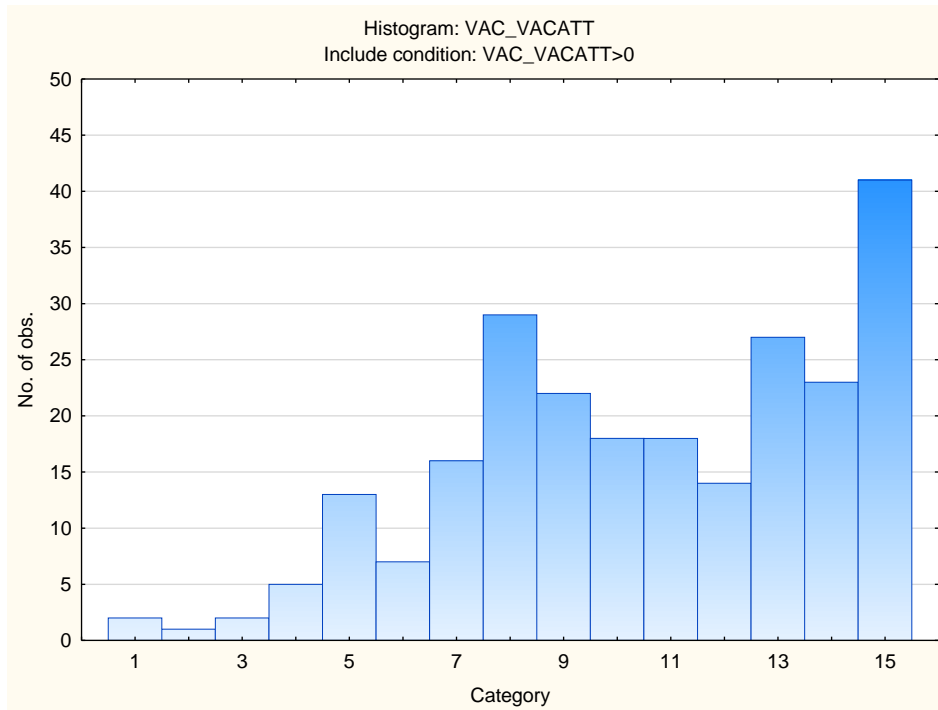
Variable	Descriptive Statistics: Spatial Reasoning Test					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases
Spatial Reasoning	9,71283	4,827719	0,000000	28,00000	2166	0
Spatial Reasoning Items Attempted	24,87535	5,161339	7,000000	30,00000	2166	0





Variable	Descriptive Statistics: Visual Acuity test					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases
Visual Acuity	6,84454	3,475804	0,000000	15,00000	238	0
Visual Acuity items attempted	10,55882	3,473028	1,000000	15,00000	238	0





Stanine Table

Scales	Stanine Groups								
	S9_1	S9_2	S9_3	S9_4	S9_5	S9_6	S9_7	S9_8	S9_9
Mechanical Reasoning	0-5	6-8	9-11	12-13	14-16	17-19	20-22	23-25	26-37
Spatial Reasoning	0-1	2-3	4-6	7-8	9-10	11-13	14-15	16-18	19-28
Visual Acuity	0-0	1-2	3-4	5-5	6-7	8-9	10-11	12-12	13-15