

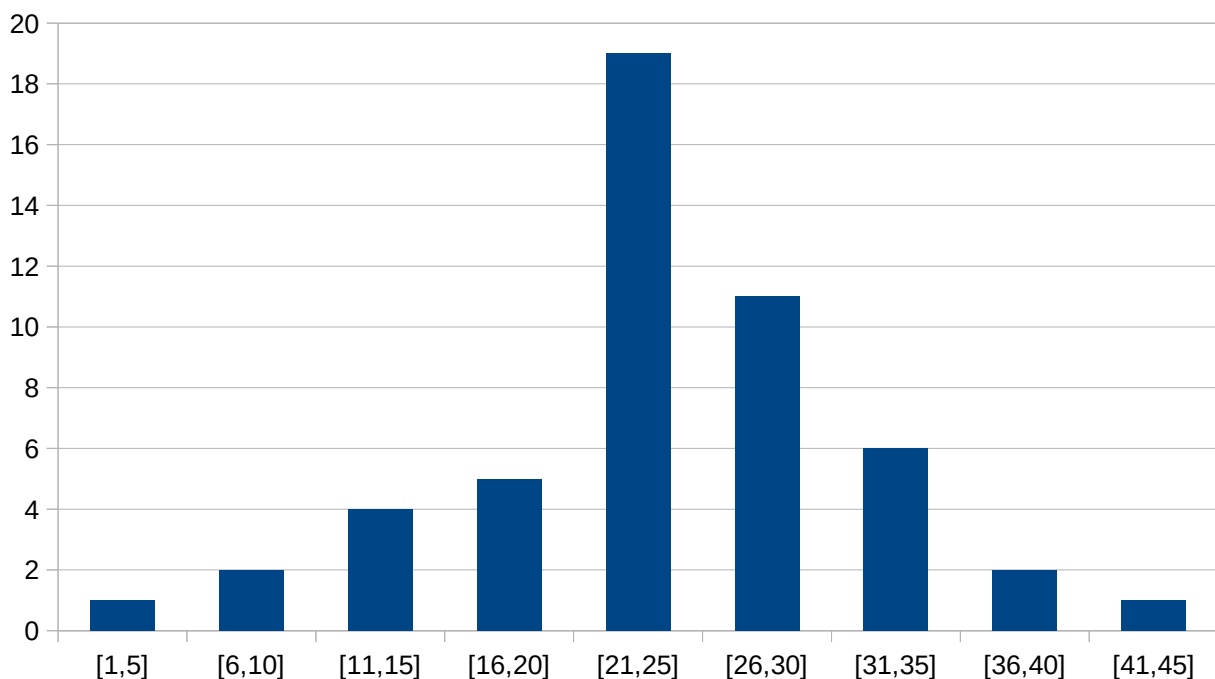
AT50 (IVAC23) Statistical Report

Update : January 12th, 2024

SAT50 is a verbal test, which can be taken under no time restriction. It consists of 50 verbal analogies, of varying difficulty. It is both suitable for people that haven't tried such a test in the past and for people more acquainted with such tests. Knowledge on several fields might be of help but it can be counterbalanced by using references, which are allowed. Specific connections rather than deep knowledge of any field is required by this test, as well as pattern recognition ability.

1-Fundamental Descriptive Statistics.

Mean and Median were calculated at 24.04 and 24, respectively. Standard deviation was calculated at 7.38 and standard error of measurement at 1.03. Lowest score was that of 4/50 and highest that of 41/50. Shapiro-Wilk test suggested that distribution of scores is normal ($W(49)=0.9814$).



2- Reliability.

Cronbach's α is calculated at 0,901. Current sample ($N=51$) is relatively sufficient for precise estimations.

3-Correlation with standard supervised psychometric batteries

Following figures are provided according to relevant scores reported by several candidates.

As one may easily notice, there is a pool of extremely capable candidates, averaging an IQ over 141 ($M=100$, $SD=15$, >99% of total population).

Correlation of AT50 with standard psychometric batteries is encouraging towards theoretical IQ estimation, as it provides an extremely high positive correlation at every measure. Of course, more data would allow even safer conclusions to be drawn.

Relevant table follows.

Test	Pairs (IQ range)	ρ	MIQ	MTest
Supervised	44 (108- 175)	0,836	141,86	26,94
Supervised*	27 (108 - 175)	0,889	147,67	30,71
Supervised**	25 (108 - 175)	0,900	147,89	30,84
WAIS	11 (108 - 164)	0,882	146,50	25,00

Standard tests used : WAIS (IV, WISC), RAPM, SPM, CFT20R, IST70-R, FRT-A, CCFIT III, SB5, MAT, Unknown Mensa Entrance Test.

Total* : Ceiling scores excluded.

Supervised : All scores reported, including WAIS subscores.

Supervised* : Only FSIQ included.

Supervised** : Ceiling scores excluded.

ρ : Spearman's Rho.

MIQ : Mean IQ (M=100, SD=15).

Mtest : Mean raw score on SAT50.

4-Norm

Presentation of Theoretical IQ (TIQ, M=100, SD=15) per raw score (RS) points follows.

RS	TIQ	RS	TIQ	RS	TIQ
3	<100	19	129	35	161
4	<100	20	131	36	163
5	100	21	133	37	165
6	102	22	135	38	167
7	104	23	137	39	169
8	106	24	139	40	171
9	108	25	141	41	173
10	110	26	143	42	176
11	112	27	145	43	178
12	115	28	147	44	180
13	117	29	149	45	182
14	119	30	151	46	184
15	121	31	153	47	186
16	123	32	155	48	188
17	125	33	157	49	190
18	127	34	159	50	>=192