

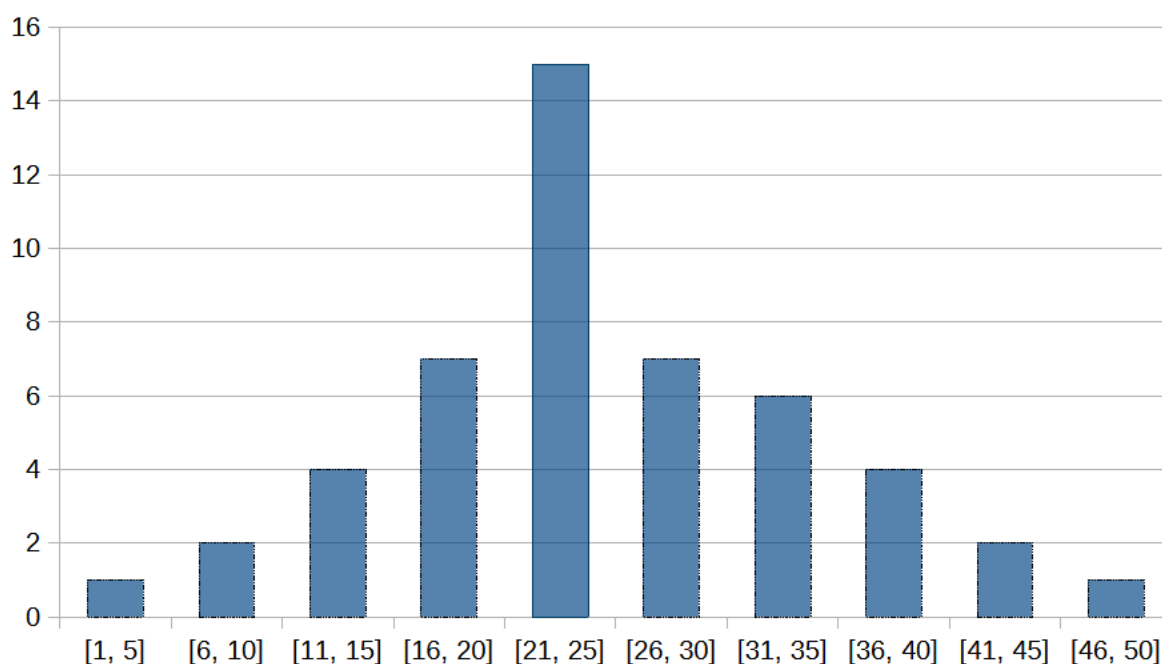
SAT50 (IC23) Statistical Report

Update : January 5th, 2024

SAT50 is a mixed verbal-numerical test, which can be taken under no time restriction. It consists of 25 verbal analogies and 25 numerical sequences, 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 required, regarding sequences, is set to bare minimum (addition, subtraction, multiplication, division); advanced mathematics aren't required and won't be of any help. In addition, sometimes sequences need to be encountered in a more abstract (as if one has to deal with simple symbols)– and even more culture-fair – way. Regarding verbal analogies, 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 25.16 and 24, respectively. Standard deviation was calculated at 9.39 and standard error of measurement at 1.34. Lowest score was that of 3/50 and highest that of 46/50. Shapiro-Wilk test suggested that distribution of scores is normal ($W(49)=0.9841$).



2- Reliability.

Cronbach's α is calculated at 0,897. Current sample (N=49) 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 147 ($M=100$, $SD=15$, >99.9% of total population).

Correlation of SAT50 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. It has to be noted that correlation figures are phenomenal and such numbers haven't been encountered before; it is quite possible that they will get lower in the future, but probably not lower than 0.7-0.8, which will also be excellent.

Test	Pairs (IQ range)	ρ	MIQ	MTest
Supervised	22 (112 - 178)	0,941	147,05	32,05
Supervised*	20 (112 - 178)	0,959	147,89	31,89
WAIS	10 (112 - 164)	0,939	139,9	26,9

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

Total* : Ceiling scores excluded.

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	104	19	129	35	155
4	105	20	131	36	156
5	107	21	132	37	158
6	108	22	134	38	159
7	110	23	136	39	161
8	112	24	137	40	163
9	113	25	139	41	164
10	115	26	140	42	166
11	116	27	142	43	167
12	118	28	144	44	169
13	120	29	145	45	171
14	121	30	147	46	172
15	123	31	148	47	175
16	124	32	150	48	180
17	126	33	152	49	186
18	128	34	153	50	>191