

ALLI 82

ALLISON RB JR
LEARNING PARAMETERS AND HUMAN ABILITIES
TECH REPORT ETS PRINCETON 1960
COGNITIVE MEASURES - ENLISTED NAVY TRAINEES

N=315

*** HIERARCHICAL FACTOR MATRIX, ORDER 1 ***

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 1: O2;F1 FLUID/CRYSTALL'D INTELL. 2H; ORDER 2									
FACTOR 2: O1;F1 VERBAL REASONING .....V; ORDER 1									
1 +41 36-ITEM VOCABULARY .....	.72	.43	.04	-.09	.05	-.07	-.11	-.09	.75
2 +42 SENTENCE COMPLETION .....	.65	.43	-.01	-.09	.01	-.11	-.10	-.14	.66
3 +40 GENERAL CLASSIFICATION TEST ..	.83	.41	.12	.04	.01	-.05	-.05	-.10	.88
4 +35 ARITHMETIC .....	.67	.40	.01	.06	-.06	.17	-.004	.325	.75
5 +64 OTIS .....	.80	.40	.09	.09	-.01	.06	.00	.05	.83
6 +50 DIVISION .....	.53	.36	-.01	-.04	.01	.26	-.074	.545	.78
7 +37 MATH APTITUDE .....	.59	.36	-.08	.13	-.03	.09	.01	.17	.53
8 +33 NUMBER SERIES .....	.62	.32	-.01	.08	.03	.13	.11	.07	.53
9 +63 AFQT .....	.72	.31	-.054	.405	-.02	-.04	-.04	.00	.78
10 +34 LETTER SETS .....	.57	.31	-.04	.08	.02	.10	.11	.03	.45
11 +65 ORAL DIRECTIONS TEST .....	.61	.28	-.05	.16	.04	.16	.23	.01	.55
12 +36 SHIP DESTINATION .....	.72	.26	.12	.28	-.08	.06	.09	-.00	.70
13 +39 REASONING .....	.55	.19	.21	.07	-.07	.16	.10	.14	.45
14 +38 FALSE PREMISES .....	.40	.15	.14	-.01	-.01	.08	.05	.03	.21
FACTOR 3: O1;F6 PERCEPTUAL SPEED .....P; ORDER 1									
15 +61 WORDS ASSOC. W/UNF. HOUSE ....	.64	.06	.46	.02	.11	.02	-.08	-.07	.65
16 +62 WORD CHECKING .....	.59	.05	.44	.01	.08	.10	.04	-.03	.56
17 +29 RECOGNITION II .....	.43	.10	.26	.01	-.04	.13	.12	.04	.30
FACTOR 4: O1;F2 MECHANICAL/SPACE .....MK; ORDER 1									
18 +47 MECHANICAL .....	.47	.03	-.03	.66	.04	-.15	-.03	-.21	.73
19 +48 G-Z MECHANICAL KNOWLEDGE .....	.37	.01	-.00	.59	.02	-.14	-.18	-.01	.54
20 +46 PAPER FORM BOARD .....	.42	.06	-.07	.53	.07	-.02	.02	-.03	.47
21 +43 CARDS .....	.41	-.04	.11	.49	.10	-.00	-.08	.05	.44
22 +45 PAPER FOLDING .....	.47	.09	-.00	.46	-.01	.01	.11	-.08	.45
23 +44 CUBES .....	.13	-.17	.24	.31	-.01	.15	-.00	.27	.29
24 +60 PICTURE DISCRIMINATION .....	.55	.07	.04	.304	.305	.20	.16	.05	.55
25 +58 STEADINESS .....	.18	-.01	.03	.18	.10	-.06	-.07	-.08	.09
FACTOR 5: O1;F3 WRITING SPEED .....WS; ORDER 1									
26 +53 WRITING X'S .....	.26	.05	-.05	-.26	.66	.13	.01	-.07	.59
27 +55 TAPPING .....	.29	-.02	.03	-.02	.53	.08	-.07	-.02	.38
28 +56 TURNING .....	.31	-.02	-.01	.08	.52	.12	-.03	.03	.39
29 +54 WRITING DIGITS .....	.40	.10	-.01	-.09	.50	.22	.04	.12	.49
30 +57 PLACING .....	.27	-.07	.05	.06	.49	.12	-.01	.01	.34
31 +51 TRACING .....	.32	-.07	.07	.15	.48	.14	-.02	.05	.39

32 +52 DOTTING16	.02	-.06	-.09	.35	.13	.11	-.04	.19
33 +59 CLERICAL APTITUDE36	.04	.05	.07	.354	.305	.074	.325	.46

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	H^2	
FACTOR 6: O2;F2 BROAD MEMORY (& NUMBER) ..2Y; ORDER 2										
FACTOR 7: O1;F4 ASSOCIATIVE MEMORYMA; ORDER 1										
34 +32 PICTURE-NUMBER .....	.17	-.00	.03	-.03	.06	.40	.63	-.03	.59
35 +31 WORD-NUMBER .....	.10	-.04	-.02	-.02	.21	.27	.39	-.04	.28
36 +30 FIRST NAMES4	.425	.18	.11	-.10	.04	.26	.31	.05	.40
FACTOR 8: O1;F5 NUMERICAL FACILITY .....N; ORDER 1										
37 +49 ADDITION4	.4454	.305	-.04	-.14	.16	.34	-.02	.57	.78
SMSQ: 9.31 1.83 .69 2.21 2.20 .99 .90 1.09 19.22										

*** HIERARCHICAL FACTOR MATRIX, ORDER 2 ***

HF # 1ST-ORD FACTOR	1	6	H^2	
FACTOR 1: O2;F1 FLUID/CRYSTALL'D INTELL. 2H; ORDER 2				
HF 2 O1;F1 VERBAL REASONING	V	.86	.03	.74
HF 3 O1;F6 PERCEPTUAL SPEED	P	.71	.11	.51
HF 4 O1;F2 MECHANICAL/SPACE	MK	.55	-.04	.30
HF 5 O1;F3 WRITING SPEED	WS	.49	.20	.29
FACTOR 6: O2;F2 BROAD MEMORY (& NUMBER) ..2Y; ORDER 2				
HF 7 O1;F4 ASSOCIATIVE MEMORY	MA	.17	.52	.30
HF 8 O1;F5 NUMERICAL FACILITY	N	-.04	.47	.22
SMSQ: 1.81 .54 2.36				