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ALLISON R.B. JR.
LEARNING PARAMETERS AND HUMAN ABILITIES
TECHNICAL REPORT; ETS PRINCETON 1960
LEARNING AND REFERENCE MEASURES COMBINED
VARIABLES DROPPED: 7; 12-13; 25-27; 58; 66-67
NAVY ENLISTED MEN

N= 315

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

V#	1	2	3	4	5	6	7	8	9	H^2	
FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY ..3G; ORDER 3											
FACTOR 2: O2;F1 GENERAL MEMORY2Y; ORDER 2											
FACTOR 3: O1;F4 ASSOC MEMORY (C2 PARAMS)..MA; ORDER 1											
1	+32 PICTURE-NUMBER (MA)	.31	.40	.34	.03	.02	.01	.06	-.08	.24	.44
2	-16 KNOB CODE C(2)	.20	.32	.33	-.06	.03	-.07	-.03	-.03	.04	.27
3	-14 WORD CODE C(2)	.29	.38	.31	.06	-.02	-.01	.04	-.05	-.04	.34
4	-23 SPATIAL CONCEPT FORM'N II C(2)	.15	.15	.29	-.20	-.16	.04	.02	.09	-.08	.21
5	-22 VERBAL CONCEPT FORM'N II C(2)	.37	.33	.24	.03	-.02	.15	.23	-.03	-.29	.47
6	-15 SPATIAL CODE C(2)	.28	.26	.23	.04	-.06	.10	.08	.03	.07	.23
7	+31 WORD-NUMBER (MA)	.22	.30	.22	.06	.16	-.02	-.03	-.01	.16	.24
8	-18 VERBAL CONCEPT FORM'N I C(2)	.34	.26	.22	-.04	.04	.19	.22	.02	-.12	.33
9	-17 SONAR C(2)	.13	.21	.18	-.01	.07	-.03	-.05	.03	-.07	.11
10	-19 SPATIAL CONCEPT FORM'N I C(2)	.29	.23	.17	.02	.08	.14	.08	.11	-.08	.22
FACTOR 4: O1;F5 MEMORY; C1 PARAMSM0; ORDER 1											
11	+01 WORD CODE C(1)	.24	.27	-.02	.54	-.03	.04	-.03	.00	.22	.48
12	+02 SPATIAL CODE C(1)	.20	.15	-.10	.46	-.04	.10	.05	.02	.06	.30
13	+04 SONAR C(1)	.21	.26	.02	.37	.05	.01	-.00	-.01	-.11	.26
14	+05 VERBAL CONCEPT FORM'N I C(1)	.28	.25	.00	.35	.10	.12	.11	-.01	-.08	.31
15	+06 SPATIAL CONCEPT FORM'N I C(1)	.23	.23	.05	.33	-.03	.07	-.00	.06	.02	.23
16	+03 KNOB CODE C(1)	.25	.22	.03	.33	-.06	.11	.06	.04	-.00	.24
FACTOR 5: O1;F3 WRITING SPEEDWS; ORDER 1											
17	+53 WRITING X'S (MS)	.16	.17	-.00	-.01	.63	.04	.05	-.03	-.08	.46
18	+55 TAPPING (MS)	.16	.07	-.07	.01	.58	.14	.01	.15	-.05	.41
19	+54 WRITING DIGITS (MS)	.27	.16	.03	-.04	.53	.19	.18	-.00	.07	.45
20	+51 TRACING (AI)	.23	.10	-.03	.07	.52	.20	-.01	.23	.10	.44
21	+56 TURNING (MD)	.22	.11	.02	-.05	.51	.18	.01	.21	.00	.40
22	+57 PLACING (MD)	.21	.13	.01	.04	.50	.14	-.03	.19	-.02	.37
23	+59 CLERICAL APTITUDE (P)	.29	.15	.03	.03	.40	.23	.17	.044	.335	.46
24	+52 DOTTING (AI)	.18	.20	.05	.12	.32	.03	-.02	.03	-.00	.19
FACTOR 6: O2;F2 FLUID/CRYSTAL'D INTELL....2H; ORDER 2											

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V#	1	2	3	4	5	6	7	8	9	H^2
FACTOR 7: O1;F1 VERBAL ABILITYV; ORDER 1										
25 +40 GEN'L CLASSIFICATION TEST (V)	.44	.05	-.04	-.00	.01	.52	.57	.044	-.315	.88
26 +64 OTIS (INT)	.46	.08	.02	-.03	-.01	.52	.57	.03	-.13	.83
27 +35 ARITHMETIC (R)	.40	.05	-.02	.01	-.04	.47	.57	-.06	.19	.75
28 +50 DIVISION (N)	.31	.02	-.05	-.03	.06	.38	.54	-.184	.375	.71
29 +41 36-ITEM VOCABULARY (V)	.37	.06	-.09	.08	.04	.42	.53	-.054	-.345	.74
30 +42 SENTENCE COMPLETION (V)	.34	.06	-.03	.02	-.05	.38	.47	-.024	-.365	.62
31 +49 ADDITION (N)	.26	.06	-.03	-.06	.23	.29	.47	-.234	.435	.67
32 +37 MATH APTITUDE (R)	.34	.00	.03	-.13	-.05	.44	.45	.06	.09	.55
33 +33 NUMBER SERIES (I)	.41	.13	.05	.02	.02	.41	.42	.03	.00	.53
34 +36 SHIP DESTINATION (R)	.45	.08	.03	.02	-.07	.51	.42	.18	-.07	.69
35 +39 REASONING (D)	.37	.15	.06	.05	-.02	.33	.40	-.05	.05	.44
36 +62 WORD CHECKING (SA)	.29	.08	.00	-.08	.21	.30	.38	-.04	-.11	.39
37 +63 AFQT (INT)	.40	-.07	-.06	-.03	-.05	.60	.384	.345	-.05	.79
38 +34 LETTER SETS (I)	.37	.11	-.01	.12	.00	.38	.38	.04	-.01	.45
39 +61 WORDS ASSOC. W/UNF.HOUSE (SA)	.32	.09	-.00	-.06	.23	.32	.37	.01	-.23	.46
40 +65 ORAL DIRECTIONS TEST (INT)	.42	.13	.03	.09	.03	.41	.36	.10	.06	.51
41 -21 CIC PLOTTING TEST C(2)	.35	.09	.08	-.05	.01	.35	.34	.07	.08	.39
42 +30 FIRST NAMES (MA)	.35	.28	.16	.07	.04	.18	.32	-.16	.11	.41
43 +29 RECOGNITION II (MA)	.27	.12	-.02	.14	.04	.23	.30	-.07	.03	.25
44 +38 FALSE PREMISES (D)	.23	.08	-.01	.05	.05	.23	.29	-.04	-.08	.21
45 +08 CIC PLOTTING TEST C(1)	.39	.18	.09	.02	.18	.33	.26	.10	.12	.43
46 +09 VERBAL CONCEPT FORM'N II C(1)	.39	.28	.05	.24	.14	.22	.24	.01	-.25	.47
47 +10 SPATIAL CONCEPT FORM'N II C(1)	.30	.15	.02	.15	.14	.23	.14	.14	-.12	.26
FACTOR 8: O1;F2 MECHANICAL KNOWLEDGEMK; ORDER 1										
48 +47 MECHANICAL (MK)	.30	-.09	-.01	-.01	-.02	.48	.00	.64	-.14	.76
49 +48 G-Z MECHANICAL KNOWLEDGE (MK)	.18	-.19	-.12	-.02	.01	.43	.03	.53	-.01	.56
50 +46 PAPER FORM BOARD (VZ)	.28	-.06	-.01	-.01	.03	.42	.06	.47	.06	.48
51 -20 BREECH BLOCK PERFORMANCE C(2)	.15	-.06	-.01	.02	.02	.26	-.11	.46	.07	.32
52 +43 CARDS (S)	.24	-.08	-.10	.03	.17	.39	.07	.40	.01	.42
53 +11 MECCANO ASSEMBLY TEST C(1)	.21	.01	.03	.04	.04	.27	-.06	.40	.11	.30
54 +45 PAPER FOLDING (VZ)	.34	.04	.11	-.07	-.06	.40	.14	.38	-.02	.46
55 +28 ROTARY PURSUIT C(0)	.09	-.02	-.01	.01	.13	.14	-.12	.33	-.09	.18
56 +60 PICTURE DISCRIMINATION (P)	.42	.16	.08	.024	.315	.39	.17	.29	.10	.57
57 -24 MECCANO ASSEMBLY TEST C(2)	.02	-.03	-.02	.04	-.03	.05	-.06	.14	-.06	.03

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V#	1	2	3	4	5	6	7	8	9	H^2
FACTOR 9: O1;F6 NUMERICAL FACILITYN; ORDER 1										
58 +44 CUBES (S)08	-.05	-.03	-.04	.12	.16	.03	.13	.26	.14
SMSQ: 5.11 1.80 .83 1.25 2.55 4.95 4.24 2.35 1.46 24.54										

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

HF # 1ST-ORD FACTOR	1	2	6	H^2
FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY ..3G; ORDER 3				
FACTOR 2: O2;F1 GENERAL MEMORY2Y; ORDER 2				
HF 3 O1;F4 ASSOC MEMORY (C2 PARAMS)..MA	.48	.64	-.02	.65
HF 4 O1;F5 MEMORY; C1 PARAMSMO	.40	.46	.06	.38
HF 5 O1;F3 WRITING SPEEDWS	.21	.24	.04	.10
FACTOR 6: O2;F2 FLUID/CRYSTAL'D INTELL....2H; ORDER 2				
HF 7 O1;F1 VERBAL ABILITYV	.48	.09	.53	.52
HF 8 O1;F2 MECHANICAL KNOWLEDGEMK	.34	-.08	.52	.39
HF 9 O1;F6 NUMERICAL FACILITYN	.01	-.07	.08	.01
SMSQ: .78 .70 .56 2.05				

*** HIERARCHICAL FACTOR MATRIX, ORDER 3 ***

HF # 2ND-ORD FACTOR	1	H^2
FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY ..3G; ORDER 3		
HF 2 O2;F1 GENERAL MEMORY2Y	.61	.37
HF 6 O2;F2 FLUID/CRYSTAL'D INTELL....2H	.61	.37
SMSQ: .74 .74		

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