

ALLI 01

~~ALLI 02~~

~~ALLI 03~~

ALLISON R.B. JR.
 LEARNING PARAMETERS AND HUMAN ABILITIES
 TECH RPT ETS PRINCETON 1960
 LEARNING MEASURES - VARS 12 25 27 DROPPED

N=315

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

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE LEARNING? 2F; ORDER 2									
FACTOR 2: O1;F3 ROTE LRNG/EARLY VS LATE ..L0; ORDER 1									
1 +15 SPATIAL CODE (C2 PARAM).....	.32	.37	-.06	.18	.24	.10	-.01	-.06	.35
2 +14 WORD CODE (C2 PARAM.) .....	.38	.32	.05	.15	.23	-.06	.01	.03	.33
3 +23 SPATIAL CONCEPT FORM'N II (C2)	.30	.29	.02	-.04	-.05	.03	.02	.08	.19
4 +16 KNOB CODE (C2 PARAM) .....	.33	.28	.06	.09	.05	-.05	-.01	-.12	.22
5 +17 SONAR (C2 PARAM) .....	.25	.23	.02	.03	.07	.02	.11	.06	.14
FACTOR 3: O1;F1 INDUCTIVE LEARNING .....I; ORDER 1									
6 +10 SPATIAL CONCEPT FORM'N II (C1)	.29	-.15	.38	.28	.02	.07	.11	.04	.35
7 +09 VERBAL CONCEPT FORM'N II (C1)..	.38	-.06	.384	.355	.16	-.02	-.07	.06	.45
8 +18 VERBAL CONCEPT FORM'N I (C2)..	.47	.07	.36	.24	-.09	.08	-.03	-.07	.43
9 +22 VERBAL CONCEPT FORM'N II (C2)..	.51	.14	.34	.21	.05	-.05	-.10	.12	.47
10 +19 SPATIAL CONCEPT FORM'N I (C2)..	.37	.06	.29	.20	.01	.02	.12	-.04	.28
11 +08 CIC PLOTTING TEST (C1 PARAM) .	.35	.01	.264	.345	.02	.26	-.04	-.07	.38
12 +21 CIC PLOTTING TEST (C2 PARAM.) .	.29	.01	.22	.26	-.01	.25	.01	-.03	.26
FACTOR 4: O2;F2 GEN'L MOTOR LEARNING .....2M; ORDER 2									
FACTOR 5: O1;F2 ROTE LEARNING .....L0; ORDER 1									
13 +01 WORD CODE (C1 PARAM) .....	.07	.05	-.04	.36	.54	.04	-.03	-.01	.43
14 +02 SPATIAL CODE (C1 PARAM) .....	.02	-.05	.02	.31	.44	.04	.09	-.01	.30
15 +03 KNOB CODE (C1 PARAM.) .....	.15	.05	.04	.27	.39	.05	-.08	.17	.29
16 +04 SONAR (C1 PARAM).....	.16	-.01	.12	.29	.34	-.04	-.17	.09	.27
17 +06 SPATIAL CONCEPT FORM'N I (C1)..	.18	.02	.14	.26	.32	-.044	.315	-.08	.33
18 +05 VEREAL CONCEPT FORM'N I (C1) .	.23	-.03	.23	.30	.31	-.13	.07	-.04	.32
FACTOR 6: O1;F4 MECH/MOTOR LEARNING .....L0; ORDER 1									
19 +20 BRECH BLOCK PERF. TEST (C2) .	.03	-.02	-.00	.13	-.00	.514	.485	.05	.51
20 +11 MECCANO ASSEMBLY TEST (C1) ...	.11	.00	.02	.26	.02	.49	-.01	.02	.32
21 +26 ROTARY PURSUIT (C2 PARAM.) ...	-.01	-.13	.08	.19	.01	.17	-.10	-.12	.12
FACTOR 7: O1;F6 UNINTERPRETED(LEARNING?) ..L0; ORDER 1									
22 +24 MECCANO ASSEMBLY TEST (C2)....	.00	-.00	.02	-.05	.05	-.04	.28	.08	.09
23 +07 BRECH BLOCK PERFORMANCE TEST	.03	-.01	.01	.12	.09	.00	-.33	.01	.13

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 8: O1;F5 ROTARY PURSUIT SPECIFIC ..P8; ORDER 1									
24 +28 ROTARY PURSUIT (C0 PARAM.)....	.06	-.00	.00	-.02	.024	.315	.05	.59	.45
25 +13 ROTARY PURSUIT (C1 PARAM.)....	.15	.19	-.02	-.22	-.06	-.03	-.02	.51	.37
SMSQ:	1.73	.58	.83	1.32	1.13	.81	.63	.74	7.78

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

HF # 1ST-ORD FACTOR	1	4	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE LEARNING? 2F; ORDER 2			
HF 2 O1;F3 ROTE LRNG/EARLY VS LATE ..L0	.68	-.01	.47
HF 3 O1;F1 INDUCTIVE LEARNING .....I	.684	.415	.63
FACTOR 4: O2;F2 GEN'L MOTOR LEARNING .....2M; ORDER 2			
HF 5 O1;F2 ROTE LEARNING .....L0	.09	.55	.31
HF 6 O1;F4 MECH/MOTOR LEARNING .....L0	.15	.42	.20
HF 7 O1;F6 UNINTERPRETED (LEARNING?) .L0	-.05	-.18	.03
HF 8 O1;F5 ROTARY PURSUIT SPECIFIC ..P8	.00	-.29	.09

SMSQ: .96 .77 1.73