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LANSMAN M/DONALDSON G/HUNT E/YANTIS S  
 ABILITY FACTORS AND COGNITIVE PROCESSES  
 INTELLIGENCE 1982 6 347-386  
 PEARSON R'S APPENDIX A PP.380-384  
 45 M;46 F GR 13-14 UNIV WASHINGTON

N=91

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

V#	1	2	3	4	5	6	7	H^2
FACTOR 1: O2;F1 BROAD SPEEDINESS .....2S; ORDER 2								
FACTOR 2: O1;F4 PERCEPT'L SPD/PAPER&PEN. ...P; ORDER 1								
1 +12 LETTER MATCHING/P&P PI	.75	.54	.02	.01	-.03	-.04	.05	.87
2 +11 LETTER MATCHING/P&P NI	.70	.49	.01	-.00	.04	-.22	.02	.79
3 +33 FINDING A'S	.39	.43	.03	-.17	-.06	.00	.23	.42
4 +17 SENT.VERIF'N/P&P SEC.2 & 4	.76	.37	-.104	.385	-.02	.04	-.04	.88
5 +32 IDENTICAL PICTURES	.29	.37	.084	-.365	.04	.16	-.11	.40
6 +34 CANCELLING NUMBERS	.45	.27	-.01	.02	.10	-.21	-.12	.34
FACTOR 3: O1;F3 PERCEPT'L SPD/EXP.SET'G ...P; ORDER 1								
7 +10 LETTER MATCHING/DDC RT	.65	-.01	.70	-.03	-.02	.02	-.06	.91
8 +9 LETTER MATCHING/DSC RT	.66	-.01	.66	.05	.04	-.17	.07	.91
9 +7 LETTER MATCHING/NI RT	.68	.01	.64	.01	-.04	.01	-.17	.91
10 +8 LETTER MATCHING/PI RT	.69	.02	.61	.03	.02	-.20	-.07	.89
FACTOR 4: O1;F2 SEMANTIC PROCESS'G SPEED..R4; ORDER 1								
11 +16 SENT.VERIF'N/FALSE NEG. RT	.60	-.03	-.03	.74	-.01	.00	-.05	.91
12 +14 SENT.VERIF'N/FALSE AFF. RT	.65	.03	.02	.70	.00	-.03	.06	.92
13 +15 SENT.VERIF'N/TRUE NEG. RT	.58	-.03	.02	.70	-.01	.06	-.01	.83
14 +13 SENT.VERIFICATION/TRUE AFF. RT	.67	.05	.03	.67	.01	-.05	.06	.90
15 +18 SENT.VERIF'N/P&P SEC. 3 & 5	.724	.335	-.12	.43	.02	.14	-.04	.85
FACTOR 5: O1;F1 VISUALIZATION .....VZ; ORDER 1								
16 +5 MENTAL ROTATIONS/P&P SEC.3	.15	.02	-.04	.00	.84	-.01	-.06	.74
17 +1 MENTAL ROTATIONS/DEPTH RT	.10	-.22	.034	.365	.844	-.4054	.315	1.14
18 +3 MENTAL ROTATIONS/P&P SEC.1	.10	-.03	-.06	.03	.82	-.03	-.16	.72
19 +2 MENTAL ROTATIONS/PICT.PLANE RT	.16	-.16	.034	.325	.804	-.405	.23	1.01
20 +6 MENTAL ROTATIONS/P&P SEC.4	.17	.02	.04	-.05	.79	-.08	-.04	.66
21 +4 MENTAL ROTATIONS/P&P SEC.2	.21	.05	.01	-.03	.77	-.10	-.06	.65
22 +28 CARD RELATIONS	.21	.02	.22	-.13	.71	.01	.06	.62
23 +30 SURFACE DEVELOPMENT	-.03	-.01	-.03	-.00	.70	.00	.26	.56
24 +31 FORM BOARD	-.03	-.03	.05	-.14	.69	.07	.09	.51
25 +27 CUBES	.26	.12	-.03	.04	.69	.09	.03	.56
26 +26 FIGURES	.21	.16	.08	-.19	.64	.02	.04	.52
27 +29 PAPER FOLDING	-.09	-.05	-.05	.06	.41	.09	.26	.26

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(CONTINUED)

V#	1	2	3	4	5	6	7	H^2
FACTOR 6: O1;F5 CRYSTAL'D INTELL. ....GC; ORDER 1								
28 +19 ESOTERIC ANALOGIES .....	.14	.10	.04	.04	.03	.77	.02	.62
29 +20 VOCABULARY .....	.11	.04	.00	.14	-.01	.72	.02	.55
30 +21 GENERAL INFORMATION .....	.12	-.02	.18	-.06	.24	.61	-.16	.51
31 +22 REMOTE ASSOCIATIONS .....	.21	.20	-.07	.02	.01	.32	-.04	.20
FACTOR 7: O1;F6 FLUID INTELL. ....GF; ORDER 1								
32 +25 LETTER SERIES .....	.01	.20	-.05	-.04	-.03	.02	.53	.33
33 +23 COMMON ANALOGIES .....	-.03	-.01	-.00	.17	.04	.16	.48	.29
34 +24 MATRICES .....	.13	.08	.16	-.09	.19	-.08	.32	.20
SMSQ: 6.38 1.40 1.89 2.84 6.56 2.19 1.12 22.37								

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

HF # 1ST-ORD FACTOR	1	H^2
FACTOR 1: O2;F1 BROAD SPEEDINESS .....2S; ORDER 2		
HF 2 O1;F4 PERCEPT'L SPD/PAPER&PEN. ..P	.81	.66
HF 3 O1;F3 PERCEPT'L SPD/EXP.SET'G ...P	.69	.47
HF 4 O1;F2 SEMANTIC PROCESS'G SPEED..R4	.66	.43
HF 5 O1;F1 VISUALIZATION .....	.V2	.16
HF 6 O1;F5 CRYSTAL'D INTELL. ....GC	-.09	.01
HF 7 O1;F6 FLUID INTELL. ....GF	-.32	.10
SMSQ: 1.70 1.70		