KRANØ1a

KRANZLER J.H. PH.D.DISS. U.CALIF. BERKELEY 1990 UNDER JENSEN
THE NATURE OF INTELLIGENCE: A UNITARY PROCESS OR
A NUMBER OF INDEPENDENT PROCESSES?
PEARSON R'S SUPPLIED BY AUTHOR. PAID UNIV. STUDENTS AGE 17-25
ORIGINAL VARIABLES 20 24 26 28 34 38 40 42 46 48 DELETED

N= 101

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

V#		1	2	3	4	5	6	7	8	9	H^2
	FACTOR 1: O2;F1 GEN'L COG. ABILITY .....2G; ORDER 2										
	FACTOR 2: O1;F5 SEMANTIC PROC'G SPEED.....R4; ORDER 1										
1 +18	ODRTSD ODDMAN .....-RTSD	.59	.62	.05	-.03	-.05	.01	-.07	.01	-.04	.75
2 +17	ODRTMDN ODDMAN .....-RT.	.62	.35	.25	-.01	-.04	.25	-.16	-.09	-.05	.67
3 +30	SARTSD POSNER SYN-ANT ...-RTSD	.34	.28	.12	.05	-.08	-.07	.01	.01	.04	.23
	FACTOR 3: O1;F2 MENTAL COMPARISON SPEED...R7; ORDER 1										
4 +33	MSRTMDN MEM.SEARCH .....-RT	.52	-.00	.72	.00	.02	.00	-.00	-.01	.04	.80
5 +41	VSTRTMDN VIS.SRCH .....-RT	.55	.06	.72	.02	-.05	.05	.14	.07	.00	.85
6 +37	MSRTINT MEM.SRCH .....-RTINT	.44	-.12	.66	.01	.05	.06	.10	-.01	.15	.68
7 +45	VSRTINT VIS.SRCH .....-RTINT	.46	.02	.62	-.07	.01	.16	.20	.09	.03	.68
8 +25	SDRTMDN POSNER SAME-DIFF ..-RT	.47	-.02	.59	-.00	.07	.03	-.16	-.09	-.00	.61
9 +44	VSMTSD VIS.SEARCH .....-MTSD	.32	.14	.49	-.02	-.13	-.06	.08	.12	-.14	.43
10 +29	SARTMDN POSNER SYN-ANT ....-RT	.58	.17	.46	-.01	.09	-.024	-.345	-.19	.04	.74
11 +36	MSMTSD MEM.SEARCH .....-MTSD	.36	.08	.37	.13	.06	.02	.06	.084	-.305	.39
	FACTOR 4: O1;F4 BROAD VISUAL PERCEPTION...GV; ORDER 1										
12 +_9	RSPAT - MAB SPATIAL	.34	-.14	.07	.65	-.06	.04	.29	-.03	-.03	.66
13 +11	ROA - MAB OBJECT ASSEMBLY	.46	.13	-.17	.55	.00	.16	.29	-.02	-.03	.66
14 +10	RPA - MAB PICTURE ARRANGEMENT.	.35	-.06	.04	.44	.14	.07	.27	.00	-.07	.42
15 +_1	RAVEN RAW - ADV.PROG.MATRICES.	.41	.23	-.07	.41	-.08	-.11	.25	-.00	.15	.49
16 +_7	RDS - MAB DIGIT SYMBOL	.38	-.08	.23	.32	.09	.10	.18	-.01	-.06	.36
	FACTOR 5: O1;F3 CRYSTALLIZED INTELL. .....GC; ORDER 1										
17 +_6	RVOCAB - MAB VOCABULARY	.28	.03	.00	-.07	.76	-.17	.01	-.03	-.03	.68
18 +_2	RINFO MAB INFORMATION	.29	-.09	-.02	.12	.66	-.044	.335	.04	.06	.65
19 +_3	RCOMP - MAB COMPREHENSION	.32	.03	.07	-.14	.65	.124	.315	.10	.02	.67
20 +_5	RSIM - MAB SIMILARITIES	.28	-.16	.09	.09	.64	-.01	.06	-.07	-.02	.54
21 +_8	RPC - MAB PICTURE COMPLETION .	.35	.19	-.26	.14	.34	.244	.325	.06	-.03	.53
	FACTOR 6: O1;F7 REACTION TIME .....R1; ORDER 1										
22 +13	HORTMDN HICK 0-BIT .....-RT.	.37	-.07	.17	.17	-.19	.54	.14	-.08	.15	.57
23 +21	H3RTMDN HICK 3-BIT .....-RT	.56	.074	.325	-.01	-.03	.51	.01	-.11	.16	.71
24 +14	HORTSD HICK 0-BIT .....-RTSD	.16	-.12	.24	-.07	-.03	.40	.13	.02	.05	.28
25 +12	IT -INSPECTION TIME	.19	.05	-.04	.07	.05	.39	.22	.07	-.14	.27
26 +22	H3RTSD HICK 3-BIT .....-RTSD	.42	.19	.10	-.12	.17	.29	.06	-.04	.13	.38
27 +_4	RARITH - MAB ARITHMETIC	.37	.11	.19	.24	.07	-.29	.12	-.01	.14	.37

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(CONTINUED)

V#		1	2	3	4	5	6	7	8	9	H^2
FACTOR 7: O2;F2 GEN. MOVEMENT TIME .....2*; ORDER 2											
FACTOR 8: O1;F6 LIMB MOVEMENT SPEED/ALT ..R3; ORDER 1											
28 +31	SAMTMDN POSNER SYN-ANT ....-MT	-.13	-.01	.00	-.06	.05	-.11	.83	.39	.26	.94
29 +27	SDMTMDN POSNER SAME-DIFF ..-MT	.11	.11	.00	-.04	.03	-.05	.69	.264	.435	.76
30 +32	SAMTSD POSNER SYN-ANT ...-MTSD	-.06	-.13	.07	.16	-.08	-.06	.52	.20	.15	.40
FACTOR 9: O1;F1 LIMB MOVEMENT SPEED .....R3; ORDER 1											
31 +39	MSMTINT MEM.SRCH .....-MTINT	.28	.01	.14	-.04	.08	-.06	.43	.02	.76	.87
32 +35	MSMTMDN MEM.SEARCH .....-MT	.20	-.03	.08	-.01	.05	-.07	.46	.03	.75	.83
33 +23	H3MTMDN HICK 3-BIT .....-MT	.21	.09	-.06	.01	-.06	.04	.44	.02	.70	.75
34 +43	VSMTMDN VIS.SEARCH .....-MT	.18	-.04	.07	-.05	-.02	.12	.50	.05	.70	.79
35 +47	VSMTINT VIS.SRCH .....-MTINT	.13	-.14	.13	.00	-.08	.13	.43	.02	.68	.73
36 +15	H0MTMDN HICK 0-BIT .....-MT.	.16	.04	-.07	-.03	.05	-.01	.36	.00	.67	.62
37 +19	ODMTMDN ODDMAN .....-MT.	.17	-.00	-.13	.12	-.03	.15	.58	.07	.60	.79
38 +16	H0MTSD HICK 0-BIT .....+MTSD	.03	-.02	-.15	.09	.01	.05	.11	-.04	.21	.09
	SMSQ:	4.98	.97	3.39	1.45	2.15	1.37	3.94	.41	4.00	22.63

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

HF #	1ST-ORD FACTOR	1	7	H^2
FACTOR 1: O2;F1 GEN'L COG. ABILITY .....2G; ORDER 2				
HF 2	O1;F5 SEMANTIC PROC'G SPEED.....R4	.70	-.03	.50
HF 3	O1;F2 MENTAL COMPARISON SPEED...R7	.57	-.01	.33
HF 4	O1;F4 BROAD VISUAL PERCEPTION...GV	.524	.425	.44
HF 5	O1;F3 CRYSTALLIZED INTELL. .....GC	.43	.21	.23
HF 6	O1;F7 REACTION TIME R1	.37	.28	.21
FACTOR 7: O2;F2 GEN. MOVEMENT TIME .....2*; ORDER 2				
HF 8	O1;F6 LIMB MOVEMENT SPEED/ALT ..R3	-.14	.88	.79
HF 9	O1;F1 LIMB MOVEMENT SPEED R3	.22	.47	.27
	SMSQ:	1.48	1.29	2.77