

HORN 31

HORN JL/STANKOV L
AUDITORY AND VISUAL FACTORS OF INTELLIGENCE
INTELLIGENCE 1982 6 165-185
PEARSON R'S TABLE 2 (PP.176-177); CONVICTS AGED 20-35

N= 241

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

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY ..2G; ORDER 2									
FACTOR 2: O1;F2 CRYSTALLIZED INTELL. ....GC; ORDER 1									
1 +10 EMS:SEMANTIC SYSTEMS .....	.55	.44	-.21	.03	-.04	-.10	-.10	.08	.57
2 + 9 V:VERBAL COMPREHENSION .....	.65	.42	.14	-.14	-.07	-.15	-.09	-.04	.68
3 +11 CMR:SEMANTIC RELATIONS .....	.75	.40	.21	-.14	.11	.03	.07	-.12	.82
4 + 8 VA:LISTENING VERBAL COMPREH'N.	.61	.30	-.07	.08	.024	.345	.18	.17	.65
5 +12 I:INDUCTION .....	.66	.22	.24	.13	-.04	.18	.04	-.07	.60
FACTOR 3: O1;F1 FLUID INTELLIGENCE .....GF; ORDER 1									
6 + 5 MSA:AUDITORY IMMEDIATE MEMORY.	.45	-.06	.57	-.22	.07	.22	-.02	.19	.67
7 +13 CFR:FIGURAL RELATIONS .....	.53	-.04	.54	.09	-.07	.23	-.04	.00	.64
8 +14 VZ:VISUALIZATION .....	.53	-.00	.41	.21	-.05	.24	-.03	-.05	.56
9 +16 CS:SPEED OF CLOSURE .....	.43	.06	.20	.18	-.024	.325	.14	-.04	.39
FACTOR 4: O1;F3 BROAD VISUAL PERCEPTION ..GV; ORDER 1									
10 +18 S:SPATIAL ORIENTATION .....	.23	-.08	-.01	.51	-.08	.28	-.04	-.01	.41
11 +17 CF:FLEXIBILITY OF CLOSURE .....	.29	-.09	.06	.40	.12	.17	-.14	-.02	.32
12 +15 CFC:FIGURAL CLASSES .....	.26	.08	-.17	.29	.14	.17	.04	-.04	.23
FACTOR 5: O1;F6 BROAD MEMORY ABILITY ....GY; ORDER 1									
13 + 2 MAJR-MAINTAIN & JUDGE RHYTHMS.	.26	-.07	-.05	.05	.54	.26	-.01	.21	.48
14 +19 MV:VISUAL MEMORY .....	.36	.13	.08	-.06	.34	-.02	-.01	-.14	.29
FACTOR 6: O2;F2 BROAD AUD. PERCEPTION.....2U; ORDER 2									
FACTOR 7: O1;F4 RESIST AUD. DISTORTION ..UR; ORDER 1									
15 + 6 SPUD:PERCEIVE DISTORTED SPEECH	-.08	-.02	-.05	-.10	-.01	.63	.69	.03	.89
16 + 7 AC:AUDITORY ACUITY	-.15	-.17	.05	.06	.00	.31	.25	.00	.22
FACTOR 8: O1;F5 BROAD AUD. PERCEPTION ....GU; ORDER 1									
17 + 1 DASP: DISCRIM. SOUND PATTERNS.4	.475	-.00	.13	-.02	.09	.47	.03	.55	.78
18 + 4 ACOR:AUDITORY COGNITIVE RELTNS4	.515	.14	.18	-.02	-.07	.24	-.00	.27	.45
19 + 3 TC - TEMPORAL TRACK SOUNDS ...4	.615	.06	.19	.17	.07	.31	-.07	.24	.61
SMSQ: 4.35 .77 1.12 .75 .50 1.51 .64 .59 10.25									

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(CONTINUED)

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

HF #	1ST-ORD FACTOR	1	6	H ²
	FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY ..2G; ORDER 2			
HF 2	O1;F2 CRYSTALLIZED INTELL. ....GC	.86	.02	.73
HF 3	O1;F1 FLUID INTELLIGENCE .....GF	.69	.29	.55
HF 4	O1;F3 BROAD VISUAL PERCEPTION ..GV	.574	.465	.54
HF 5	O1;F6 BROAD MEMORY ABILITY .....GY	.45	.21	.25

	FACTOR 6: O2;F2 BROAD AUD. PERCEPTION.....2U; ORDER 2			
HF 7	O1;F4 RESIST AUD. DISTORTION ...UR	.08	.71	.51
HF 8	O1;F5 BROAD AUD. PERCEPTION ....GU4	.425	.51	.44

SMSQ: 1.92 1.10 3.02