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BOTZUM WA
 A FACTORIAL STUDY OF THE REASONING AND CLOSURE FACTORS
 PSYCHOMETRIKA 1951 16 361-386
 PEARSON R'S TABLE 1 PP. 379-381
 COLLEGE MEN AT UNIV OF NOTRE DAME

N=237

*** 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;F3 INDUCTIVE REASONING .....I; ORDER 1									
1 + #1 LETTER SERIES .....	.69	.47	-.03	-.01	.00	.00	-.28	.78	
2 + #2 NUMBER SERIES .....	.64	.42	-.01	.04	.06	-.11	.05	-.03	.61
3 + #9 ARITHMETIC .....	.64	.34	.00	.18	-.01	-.15	.28	.01	.66
4 + #3 LETTER GROUPING .....	.65	.32	.06	.05	.14	.04	.06	-.22	.61
5 + #7 REASONING III .....	.61	.32	-.01	.10	-.06	.114	.375	-.04	.64
6 + #5 REASONING 11 .....	.52	.31	.02	.02	.08	-.194	.335	.02	.52
7 + #4 NUMBER PATTERNS .....	.63	.28	.11	.12	-.04	.08	-.00	.01	.52
8 + #6 PATTERN ANALOGIES .....	.62	.28	.25	-.10	.02	-.01	.08	-.06	.55
9 +10 TABULAR SQUARES .....	.54	.24	.01	.23	.09	-.05	-.05	-.02	.42
10 + #8 SECRET WRITING .....	.55	.23	.11	.08	-.07	.14	.13	.08	.42
11 +13 NUMERICAL JUDGMENT .....	.49	.23	.08	.15	-.17	-.01	.02	.04	.36
12 +12 MARKS .....	.48	.18	.20	.00	-.03	.05	-.04	.02	.31
FACTOR 3: O1;F1 VISUALIZATION .....VZ; ORDER 1									
13 +38 CARDS .....	.62	.04	.57	-.03	.04	.04	-.10	.02	.72
14 +37 FIGURES .....	.51	-.03	.54	.01	-.02	-.04	-.04	-.02	.56
15 +39 SOLID BLOCKS .....	.52	.00	.54	.00	.00	-.08	-.05	.16	.60
16 +23 BLOCK COUNTING .....	.63	.05	.51	.04	-.02	.13	-.04	.20	.72
17 +21 GOTTSCHALDT FIGURES .....	.54	-.01	.50	.01	.00	.28	.054	.435	.81
18 +24 PAPER PUZZLES .....	.56	.10	.48	-.12	.01	-.00	.01	.17	.60
19 +25 MECHANICAL MOVEMENTS .....	.53	.11	.46	-.13	-.04	.01	.174	.355	.68
20 +20 COPYING .....	.54	.01	.45	-.00	.10	.23	.05	.28	.63
21 +22 DESIGNS .....	.43	-.11	.43	.09	.044	.355	.064	.325	.62
22 +36 IDENTICAL FORMS .....	.49	-.01	.37	-.00	-.024	.365	.05	-.28	.59
23 +19 FIGURE GROUPING .....	.59	.16	.36	-.10	-.02	.03	.19	.01	.55
24 +15 FIGURE CLASSIFICATION .....	.54	.16	.33	-.09	-.03	.02	.22	.14	.51
25 +26 HIDDEN WORDS .....	.56	.18	.26	-.03	.07	.18	-.04	.21	.49
26 +33 HIDDEN LETTERS .....	.28	.08	.25	-.17	-.09	.16	-.02	-.05	.21
27 +34 PICTURE SQUARES .....	.38	.08	.23	-.06	.00	.21	.00	-.10	.27
FACTOR 4: O1;F4 NUMERICAL FACILITY .....N; ORDER 1									
28 +45 MULTIPLICATION .....	.50	.00	-.00	.69	.03	.00	.01	-.06	.73
29 +46 ADDITION41	.07	-.16	.57	.17	-.01	-.01	-.17	.59
30 +11 TABULAR COMPLETION52	.20	.03	.25	-.09	.00	.16	-.01	.41

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V#	1	2	3	4	5	6	7	8	H^2
FACTOR 5: O1;F6 WORD FLUENCYFW; ORDER 1									
31 +43 FIRST LETTER25	-.01	.03	.01	.78	.03	.05	-.03	.67
32 +30 INCOMPLETE WORDS .....	.47	.24	-.07	-.00	.524	.335	-.12	.04	.67
33 +44 SUFFIXES .....	.19	.07	-.03	-.03	.48	-.05	.01	-.20	.31
34 +32 SCRAMBLED WORDS .....	.53	.16	-.01	.20	.45	.23	-.06	.04	.61
FACTOR 6: O1;F5 CLOSURE SPEED .....CS; ORDER 1									
35 +31 FOUR LETTER WORDS .....	.37	.01	.03	.174	.325	.46	-.02	.01	.48
36 +27 STREET GESTALT .....	.11	-.00	.214	-.325	.02	.46	-.03	.00	.37
37 +35 HIDDEN PICTURES .....	.11	-.00	.15	-.20	.04	.42	-.13	-.01	.27
38 +29 MUTILATED WORDS .....	.26	.21	.00	-.27	.13	.36	-.01	-.07	.34
39 +28 BACKWARD WRITING .....	.56	.15	.17	.03	.18	.32	-.03	-.14	.53
FACTOR 7: O1;F2 VERBAL ABILITY .....V; ORDER 1									
40 +40 DEFINITION .....	.30	-.00	-.03	.20	.21	.01	.77	-.00	.78
41 +41 VOCABULARY .....	.29	.02	-.154	.315	.27	.04	.71	.00	.77
42 +42 COMPLETION .....	.50	.19	-.09	.23	.01	.12	.61	-.15	.75
43 +17 VERBAL ANALOGIES I .....	.50	.20	.04	.03	.07	-.02	.55	-.22	.65
44 +16 REASONING I .....	.39	.25	-.02	-.02	-.00	-.05	.49	.21	.50
45 +18 VERBAL ANALOGIES II .....	.54	.26	.08	-.02	.11	-.09	.45	.00	.59
46 +14 FALSE PREMISES .....	.39	.19	.10	-.05	-.01	-.01	.28	.08	.29
FACTOR 8: O1;F7 CLOSURE FLEXIBILITYCF; ORDER 1									
SMSQ:11.42 1.75 3.13 1.59 1.74 1.65 2.87 1.10 25.26									

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

HF #	1ST-ORD FACTOR	1	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY ..2G; ORDER 2			
HF 2	O1;F3 INDUCTIVE REASONING	I .83	.69
HF 3	O1;F1 VISUALIZATION	VZ .72	.52
HF 4	O1;F4 NUMERICAL FACILITY	N .58	.34
HF 5	O1;F6 WORD FLUENCY	FW .25	.06
HF 6	O1;F5 CLOSURE SPEED	CS .25	.06
HF 7	O1;F2 VERBAL ABILITY	V .17	.03
HF 8	O1;F7 CLOSURE FLEXIBILITY	CF -.10	.01

SMSQ: 1.71 1.71
