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MICHAEL WB/ZIMMERMAN WS/GUILFORD JP
 AN INVESTIGATION OF THE NATURE OF THE SPATIAL-RELATIONS
 AND VISUALIZATION FACTORS IN TWO HIGH SCHOOL SAMPLES
 EDUC & PSYCHOL MEAST 1951 11 561-577 - TABLE 3 P. 568
 MALES - GR. 12 - AGE 15-20

N=151

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

V#	1	2	3	4	5	6	H^2
FACTOR 1: O2;F1 BROAD VISUAL PERCEPTION ..2V; ORDER 2							
FACTOR 2: O1;F1 VISUALIZATION .....VZ; ORDER 1							
1 +#2 GENERAL REASONING [POWER].....	.64	.28	-.28	.29	-.13	.11	.68
2 +12 PUNCHED HOLES [POWER] .....	.73	.27	-.04	-.02	-.05	-.08	.62
3 +11 FORM BOARD [POWER].....	.71	.24	-.01	-.04	.14	-.14	.61
4 +#6 SPATIAL VISUALIZATION [POWER].	.74	.19	.05	.04	.05	.09	.60
5 +10 REASONING [POWER] .....	.67	.14	.01	.08	.23	.21	.57
6 +14 CUBES .....	.56	.13	.08	-.02	.13	.03	.36
FACTOR 3: O1;F2 SPATIAL RELATIONS .....SR; ORDER 1							
7 +#5 SPATIAL ORIENTATION [SPEED]...	.50	-.03	.41	.02	-.03	.12	.43
8 +#9 SPACE (FLAGS; CARDS; FIGURES).	.54	.03	.37	-.02	-.05	-.05	.44
9 +15 SPATIAL RELATIONS .....	.50	.02	.32	.03	-.05	-.02	.36
FACTOR 4: O1;F3 VERBAL ABILITY .....V; ORDER 1							
10 +#1 VERBAL COMPREHENSION .....	.38	.01	-.02	.81	-.03	-.08	.80
11 +#8 VERBAL MEANING .....	.46	-.01	.04	.73	.11	.03	.76
FACTOR 5: O1;F5 PERCEPTUAL SPEED .....P; ORDER 1							
12 +#4 PERCEPTUAL SPEED .....	.33	.03	-.03	.05	.58	-.00	.46
13 +13 IDENTICAL FORMS .....	.42	.00	.04	-.04	.514	.395	.59
FACTOR 6: O1;F4 NUMERICAL FACILITY .....N; ORDER 1							
14 +#3 NUMERICAL OPERATIONS32	.01	-.02	-.05	.07	.87	.86
15 +#7 NUMBER32	.02	-.00	.10	-.07	.66	.55
SMSQ: 4.41 .29 .50 1.30 .73 1.45 8.68							

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

HF #	1ST-ORD FACTOR	1	H^2
	FACTOR 1: O2;F1 BROAD VISUAL PERCEPTION ..2V; ORDER 2		
HF 2	O1;F1 VISUALIZATION .....VZ	.95	.91
HF 3	O1;F2 SPATIAL RELATIONS .....SR	.80	.64
HF 4	O1;F3 VERBAL ABILITY .....V	.46	.21
HF 5	O1;F5 PERCEPTUAL SPEED .....P	.41	.17
HF 6	O1;F4 NUMERICAL FACILITY .....N	.35	.12

SMSQ: 2.05 2.05
