

PATE 01

PATERSON DG/ELLIOTT RM/ANDERSON LD/TOOPS HA/HEIDREDER E
 MINNESOTA MECHANICAL ABILITY TESTS
 MINNEAPOLIS; U MINN PRESS 1930 TABLE 88 432-433 PEARSON R'S
 BOYS GR 7-8 AGE 12.5-16.5 MEAN 13;2

N=217

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

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 1: O2;F1 GEN'L PSYCHOMOTOR ABIL. ...2P; ORDER 2									
FACTOR 2: O1;F5 AIMING .....AI; ORDER 1									
1 +#3 ARMY ALPHA- CRITERION SCORE .	.19	.45	-.06	.02	-.04	-.05	-.17	.12	.28
2 +#2 AIMING .....	.20	.37	-.13	.04	.15	-.02	.04	-.10	.23
3 +#8 DIGIT SYMBOL .....	.41	.34	.20	.17	.03	.21	.07	-.15	.42
4 +17 PACKING BLOCKS .....	.38	.31	.25	.02	-.00	.13	.07	.17	.35
5 +#5 BODY BALANCING .....	.21	.30	.05	-.04	.19	-.11	.11	-.15	.22
6 +19 RHYTHM .....	.12	.23	-.03	.23	.02	-.10	-.24	-.08	.19
7 +20 SLOW MOVEMENT .....	.12	.21	-.13	-.02	.13	.04	.05	.02	.10
FACTOR 3: O1;F1 MULTILIMB COORDINATION ...P6; ORDER 1									
8 +#7 CARD SORTING- TIME .....	.46	.18	.63	.03	.16	-.03	.00	.01	.67
9 +#6 CARD ASSEMBLING- TIME .....	.41	.05	.56	.17	.15	.00	-.02	-.00	.54
10 +10 LINK'S MACHINE OPERATOR'S ...	.39	.13	.32	.09	.16	.02	.25	.03	.37
FACTOR 4: O1;F7 WRIST-FINGER SPEED(ALT.)...P5; ORDER 1									
11 +28 TAPPING A .....	.24	-.01	-.06	.65	-.05	-.03	.06	-.02	.49
12 +21 SPEED OF MOVEMENT .....	.31	-.04	-.01	.50	.12	.01	.17	.07	.40
FACTOR 5: O1;F6 ARM-HAND STEADINESS .....P7; ORDER 1									
13 +31 TRACING BOARD- # OF ERRORS ..	.18	-.11	.03	-.04	.66	-.03	-.08	.11	.50
14 +33 TRACING PAPER- # OF ERRORS ..	.11	.16	-.17	-.08	.42	-.06	.09	-.15	.28
15 +22 STEADINESS- # OF CONTACTS ...	.19	.01	-.07	.24	.42	-.01	-.11	-.12	.30
FACTOR 6: O1;F4 PERCEPTUAL SPEED .....P; ORDER 1									
16 +#9 LETTER CANCELLATION .....	.35	.09	.01	.18	.02	.78	-.07	.08	.78
17 +14 NUMBER CANCELLATION .....	.31	-.04	.06	.06	.18	.73	.09	-.04	.67
FACTOR 7: O1;F2 WRIST-FINGER SPEED .....P5; ORDER 1									
18 +29 TAPPING B .....	.24	-.01	-.02	.21	-.07	-.04	.82	.01	.79
19 +30 TAPPING C .....	.27	.12	-.01	.15	.02	.00	.54	-.01	.41
FACTOR 8: O1;F3 VISUALIZATION .....VZ; ORDER 1									
20 +18 PAPER FORM BOARD .....	.28	.20	.01	-.01	.08	-.04	.01	.71	.63
21 +24 STENQUIST ASSEMBLY .....	.21	-.02	-.03	.08	.13	.01	.09	.58	.42
22 +11 LINK'S SPATIAL RELATIONS.....	.35	.19	.15	.02	.09	.11	-.02	.50	.45
SMSQ: 1.83 .92 1.02 .96 1.02 1.24 1.23 1.25 9.48									

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(CONTINUED)

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

HF #	1ST-ORD FACTOR	1	H^2
	FACTOR 1: O2;F1 GEN'L PSYCHOMOTOR ABIL. .2P; ORDER 2		
HF 2	O1;F5 AIMING	AI	.48 .23
HF 3	O1;F1 MULTILIMB COORDINATION ...	P6	.42 .17
HF 4	O1;F7 WRIST-FINGER SPEED(ALT.)..	P5	.41 .17
HF 5	O1;F6 ARM-HAND STEADINESS	P7	.36 .13
HF 6	O1;F4 PERCEPTUAL SPEED	P	.26 .07
HF 7	O1;F2 WRIST-FINGER SPEED	P5	.24 .06
HF 8	O1;F3 VISUALIZATION	VZ	.21 .05
	SMSQ:		.87 .87