

PETE 11
~~PETE 12~~

PETERSEN H/GUILFORD JP/HOEPFNER R/MERRIFIELD PR
 DETERMINATION OF "STRUCTURE-OF-INTELLECT ABILITIES INVOLVED
 IN NINTH-GRADE ALGEBRA AND GENERAL MATHEMATICS
 USC PSYCHOL LAB REPORTS #31 OCT 1963 - TABLE 9 P.22
 GR 9 STUDENTS IN GENERAL MATHEMATICS COURSES

N=217

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

V#	1	2	3	4	5	6	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY .22G; ORDER 2							
FACTOR 2: O1;F2 INDUCTIVE REASONING .....I; ORDER 1							
1 +#8 LETTER SERIES NSR02B .....	.53	.45	-.03	-.22	.07	.16	.56
2 +#7 LETTER-NUMBER MSI03A .....	.37	.42	-.07	-.08	-.11	-.12	.35
3 +21 WORD CHANGES NSS02B .....	.49	.40	-.05	-.01	-.06	-.02	.41
4 +#5 CORRELATE COMPLETION II NSR01A	.66	.36	.12	-.00	-.03	.13	.60
5 +#6 FORM REASONING NST02B .....	.50	.31	.01	.05	.094	-.335	.46
6 +#3 CAMOUFLAGED WORDS NST01A .....	.43	.25	.17	-.12	.05	-.13	.31
7 +25 WORD TRANSFORMATION NST02A ...	.50	.23	.08	.11	.05	-.23	.38
8 +24 WORD RELATIONS CSR02B .....	.55	.20	.10	.12	.02	.07	.38
9 +#4 CIRCLE REASONING CSS01C .....	.35	.20	.21	.00	-.19	-.05	.25
10 +16 SEEING TRENDS II CSR01A .....	.55	.18	.18	.08	.02	.02	.37
FACTOR 3: O1;F1 VERBAL ABILITY .....V; ORDER 1							
11 +28 IOWA READING COMP'N (CMU) ....	.46	-.01	.54	-.11	.04	.04	.53
12 +26 CTMM LANGUAGE MA (CMU) .....	.57	-.01	.52	-.03	.09	.06	.61
13 +22 WORD LINKAGE EMR03A .....	.46	-.01	.48	.09	-.08	-.08	.46
14 +10 MATCHED VERBAL RELAT'NS EMR02A	.46	.03	.36	.06	-.07	.22	.40
15 +17 SENTENCE ORDER NMS03A .....	.45	.09	.35	-.03	.04	-.15	.36
16 +#2 BEST TREND NAME EMR01A .....	.46	.01	.28	.14	-.05	.27	.38
FACTOR 4: O1;F5 QUANTITATIVE REASONING ...RQ; ORDER 1							
17 +20 SYMBCL GROUPING CSI01A .....	.40	.00	-.03	.45	.04	-.09	.38
18 +11 NECESSARY FACTS CMS04A .....	.56	.06	.05	.34	.11	.08	.45
19 +15 RIGHT ORDER TEST NSS01B .....	.40	.00	.01	.21	.22	.12	.27
FACTOR 5: O1;F3 NUMERICAL FACILITY .....N; ORDER 1							
20 +19 SIGN CHANGES NSI01A .....	.39	-.07	.06	-.01	.60	-.04	.52
21 +13 NUMERICAL OPERATIONS MSI01A ..	.42	.03	-.02	-.02	.58	-.12	.53
22 +#1 ALTERNATE ADDITIONS DSR01B ...	.40	.04	-.08	.01	.48	.22	.44
23 +32 DAT NUMERICAL ABILITY (MSI) ..	.56	.08	.14	.07	.27	.14	.44
24 +12 NUMBER RULES DSRO2B45	.15	-.03	.07	.26	-.05	.36
25 +23 WORD PATTERNS CST03B41	.05	.09	.07	.24	.00	.24

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(CONTINUED)

V#	1	2	3	4	5	6	H^2
FACTOR 6: O1;F4 SEQUENTIAL REASONINGRG; ORDER 1							
26 +18 SHIP DESTINATION A-2 (CMS)41	.05	.01	.23	.06	.29	.31
27 +9 LETTER TRIANGLE CSS02B .....	.41	.15	.08	-.02	.08	.28	.28
28 +14 PICTURE ARRANGEMENT NMS01B35	-.02	.18	.00	.19	.24	.25
SMSQ: 6.16 1.07 1.35 .59 1.31 .74 11.22							

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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;F2 INDUCTIVE REASONING .....	.83	.69
HF 3	O1;F1 VERBAL ABILITY .....	.71	.50
HF 4	O1;F5 QUANTITATIVE REASONING ...	.67	.46
HF 5	O1;F3 NUMERICAL FACILITY61	.37
HF 6	O1;F4 SEQUENTIAL REASONING24	.06
SMSQ: 2.07 2.07			

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