

Snow 12

SNOW RE/LOHMAN DF/MARSHALEK B/YALOW E/WEBB N  
CORRELATIONAL ANALYSIS OF REFERENCE APTITUDE CONSTRUCTS  
STANFORD CA- APTITUDE RESEARCH PROJ TECH RPT #5 SEP 1977

PEARSON R'S P.8

64 M; 59 F STANFORD U UNDERGRADS

N=123

\*\*\* 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;F4 MEMORY SPAN .....MS; ORDER 1									
1 +24 WAIS DIGIT SPAN FORWARD .....	.38	.57	-.02	.01	-.11	-.024	.455	-.02	.69
2 +4 AUDITORY LETTER SPAN .....	.42	.55	-.16	.04	-.02	.01	-.04	-.17	.53
3 +5 VISUAL NUMBER SPAN .....	.46	.52	.04	-.04	-.01	-.02	.05	-.03	.49
4 +25 WAIS DIGIT SPAN BACKWARD .....	.44	.31	.19	.04	.04	.044	.335	.23	.50
FACTOR 3: O1;F1 QUANTITATIVE REASONING ...RQ; ORDER 1									
5 +34 SAT-Q (SCHOLASTIC APTITUDE Q) ..	.55	.04	.66	-.00	-.03	-.03	-.04	.04	.75
6 +32 RAVEN MATRICES .....	.45	-.07	.48	-.02	-.024	.395	-.11	-.03	.61
7 +17 NECESSARY ARITH. OPERATIONS ..	.50	-.03	.47	.18	-.01	-.00	.03	-.06	.51
8 +11 SURFACE DEVELOPMENT .....	.44	.01	.44	-.10	-.024	.465	.00	.02	.61

9	+29	WAIS BLOCK DESIGN	.41	-.10	.40	.02	.024	.385	-.18	.05	.52
10	+14	HIDDEN FIGURES	.30	.02	.38	-.14	-.00	.23	.22	-.14	.38
11	+22	WAIS ARITHMETIC	.36	-.02	.37	.07	.03	.02	.19	-.01	.30

FACTOR 4: O1;F2 LANGUAGE DEVELOPMENT .....LD; ORDER 1

12	+26	WAIS VOCABULARY	.38	.02	-.17	.69	-.02	.01	.01	.04	.65
13	+33	SAT-V (SCHOLASTIC APTITUDE V)	.42	-.01	.01	.65	-.03	-.00	.044	.335	.71
14	+19	TERMAN ANALOGIES	.50	-.01	.12	.54	.02	-.03	-.04	-.00	.56
15	+20	WAIS INFORMATION	.45	.05	.16	.47	-.12	.02	.03	-.05	.47
16	+15	WORD BEGINNINGS & ENDINGS	.48	.24	-.03	.33	.05	.01	-.02	.05	.40
17	+12	WORD TRANSFORMATIONS	.49	-.01	.05	.33	.22	.12	-.01	-.06	.41
18	+13	CAMOUFLAGED WORDS	.53	.18	.02	.31	.04	.25	-.04	.02	.47
19	+21	WAIS COMPREHENSION	.24	-.06	.02	.31	-.02	.23	-.07	.21	.26

FACTOR 5: O1;F5 PERCEPTUAL SPEED .....P; ORDER 1

20	+27	WAIS DIGIT SYMBOL	.38	.00	-.00	-.04	.59	.01	-.00	-.04	.49
21	+#8	NUMBER COMPARISON	.38	.03	-.01	.04	.58	-.23	-.15	-.02	.55
22	+#7	FINDING A'S	.32	.08	.01	.09	.37	-.15	.19	.06	.32
23	+30	WAIS PICTURE ARRANGEMENT	.24	-.05	.15	.03	.17	.15	.17	.07	.17

FACTOR 6: O1;F3 VISUALIZATION .....VZ; ORDER 1

24	+31	WAIS OBJECT ASSEMBLY	.21	.03	-.02	.02	.01	.684	-.3654	.625	1.02
25	+#2	HARSHMAN GESTALT	.27	-.19	.02	.27	.03	.59	.02	-.06	.53
26	+#9	PAPER FOLDING	.46	-.044	.425	-.01	-.12	.58	-.15	-.15	.78
27	+10	PAPER FORM BOARD	.35	.02	.23	-.01	-.01	.54	.16	.10	.50
28	+#1	STREET GESTALT	.15	-.17	-.03	.26	-.02	.50	.21	.03	.41

29 +#6 IDENTICAL PICTURES .....	.29	-.01	.01	-.024	.325	.36	.03	.22	.37
30 +28 WAIS PICTURE COMPLETION .....	.18	.04	.07	.06	-.04	.24	.18	-.03	.13

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 7: O1;F6 SENSITIVITY TO PROBLEMS?..SP; ORDER 1									
31 +16 USES FOR THINGS .....	-.05	-.03	.02	-.02	.11	-.13	.53	-.01	.32
32 +23 WAIS SIMILARITIES .....	.24	.04	-.05	.23	.16	-.01	.30	.09	.24
FACTOR 8: O1;F7 MEANINGFUL MEMORY .....MM; ORDER 1									
33 +#3 FILM MEMORY III .....	-.02	-.20	-.03	.06	.11	-.01	-.13	-.33	.19
34 +18 LETTER SERIES .....	.44	.044	.375	.01	.03	.03	.01	-.41	.50
SMSQ: 4.95 1.24 2.04 2.09 1.11 2.68 1.19 1.04 16.34									

\*\*\* 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;F4 MEMORY SPAN .....	MS	.67	.45
HF 3 O1;F1 QUANTITATIVE REASONING ...	RQ	.64	.41
HF 4 O1;F2 LANGUAGE DEVELOPMENT .....	LD	.61	.37
HF 5 O1;F5 PERCEPTUAL SPEED .....	P	.56	.32
HF 6 O1;F3 VISUALIZATION .....	VZ	.32	.10
HF 7 O1;F6 SENSITIVITY TO PROBLEMS?..	SP	-.10	.01
HF 8 O1;F7 MEANINGFUL MEMORY .....	MM	-.15	.02

SMSQ: 1.68 1.68

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