

FAIRØ1A

~~FAIRØ1~~

~~FAIRØ2~~

FAIRBANK BA JR/TIRRE W/ANDERSON N
 MEASURES OF THIRTY COGNITIVE TASKS: RELIABILITYSS;
 INTERCORRELATIONS AND CORRELATIONS WITH APTITUDE BATTERY SCORES
 SAN ANTONIO TX: PERFORMANCE METRICS INC 1984
 PEARSON R'S TABLE 9 - SELECTED VARIABLES

N= 400

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

V#	1	2	3	4	5	6	7	8	9	H^2
FACTOR 1: O2;F1 BROAD SPEEDINESS .....2S; ORDER 2										
FACTOR 2: O1;F2 MENTAL COMPARISON SPEED ..R7; ORDER 1										
1 +20 POSNER PHYSICAL MATCH TIME (-)	.92	.36	-.02	.01	.10	-.02	.01	-.00	.01	.99
2 +21 POSNER NAME MATCH TIME (-)	.92	.36	-.00	-.01	.13	.01	-.00	-.00	-.02	.98
FACTOR 3: O1;F4 SEMANTIC PROC'G SPEED ....R4; ORDER 1										
3 +18 WORD PAIR CLASS'N TIME (-)	.63	.00	.55	.01	.17	.02	-.00	.05	-.03	.73
4 +16 SINGLE WD CLASS'N TIME (-)	.68	.02	.53	.11	.09	-.01	-.00	-.03	-.02	.77
FACTOR 4: O1;F7 REACTION TIME .....R1; ORDER 1										
5 +11 SIMPLE REACTION TIME (-)	.37	.02	.05	.48	-.02	-.00	.03	.01	.09	.38
6 +12 TWO-CHOICE REACTION TIME (-)	.66	.12	.08	.46	.05	.03	-.01	.05	.02	.68
FACTOR 5: O2;F2 FLUID/CRYSTAL'D INTELL. ..2H; ORDER 2										
FACTOR 6: O1;F6 QUANTITATIVE REASONING ...RQ; ORDER 1										
7 + 4 MATHEMATICS KNOWLEDGE - ASVAB	.16	.00	-.06	.07	.63	.50	-.01	.10	-.11	.70
8 + 1 ARITHMETIC REASONING - ASVAB	.17	-.02	.03	-.05	.60	.39	.07	.22	.10	.61
FACTOR 7: O1;F3 VERBAL ABILITY .....V; ORDER 1										
9 +10 WORD KNOWLEDGE - ASVAB	.00	.00	-.00	-.01	.59	-.02	.71	-.01	-.08	.86
10 + 8 GENERAL SCIENCE - ASVAB	.09	.01	-.02	.11	.46	.20	.44	-.16	.24	.55
11 + 9 PARAGRAPH COMPREHENSION/ ASVAB	.16	.01	.11	-.16	.50	.12	.36	.08	.10	.47
FACTOR 8: O1;F5 NUMERICAL FACILITY .....N; ORDER 1										
12 + 2 NUMERICAL OPERATIONS - ASVAB	.25	.02	-.06	.13	.24	.03	-.05	.62	-.04	.53
13 + 3 CODING SPEED - ASVAB	.25	.01	.08	-.07	.27	-.02	.04	.54	-.02	.44
FACTOR 9: O1;F1 MECHANICAL KNOWLEDGE ....MK; ORDER 1										
14 + 7 AUTO & SHOP INFORMATION/ASVAB	.05	-.00	-.01	.03	.09	-.014	.335	.03	.73	.65
15 + 6 ELECTRONICS INFORMATION/ASVAB	.02	-.01	-.06	.05	.23	.014	.435	.09	.68	.71
16 + 5 MECHANICAL COMPREHENSION/ASVAB	.19	.01	.04	-.06	.264	.385	-.03	-.08	.65	.68
SMSQ: 3.37 .27 .62 .53 1.89 .61 1.12 .78 1.53 10.72										

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(CONTINUED)

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

HF #	1ST-ORD FACTOR	1	5	H^2
	FACTOR 1: O2;F1 BROAD SPEEDINESS			2S; ORDER 2
HF 2	O1;F2 MENTAL COMPARISON SPEED ...R7	.93	.12	.87
HF 3	O1;F4 SEMANTIC PROC'G SPEED ....R4	.73	.15	.56
HF 4	O1;F7 REACTION TIME .....	.45	-.09	.21
	FACTOR 5: O2;F2 FLUID/CRYSTAL'D INTELL. ..			2H; ORDER 2
HF 6	O1;F6 QUANTITATIVE REASONING ...RQ	.21	.75	.60
HF 7	O1;F3 VERBAL ABILITY .....	.02	.64	.41
HF 8	O1;F5 NUMERICAL FACILITY .....	.29	.37	.22
HF 9	O1;F1 MECHANICAL KNOWLEDGE .....	.06	-.22	.05

SMSQ: 1.73 1.19 2.93