

LORD 01

LORD FM - ENTRANTS US NAVAL ACADEMY
 A STUDY OF SPEED FACTORS IN TESTS AND ACADEMIC GRADES
 PSYCHOMETRIKA 1956 21 31-50 TABLE 2 36-37 PEARSON R'S
 PROCRUSTES SOLUTION TO APPROXIMATE LORD'S TABLE 5
 BUT ALSO WITH DWYER EXTENSION ANALYSIS VARIABLES

N=649

*** 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;F4 NUMERICAL FACILITY(SPEED)..N; ORDER 1										
1 +26 NUMBER SPEED (R1) .....	.71	.47	-.02	-.02	.17	.04	-.11	.05	.13	.78
2 +27 NUMBER SPEED (R2) .....	.64	.37	.03	-.01	.10	-.04	.14	-.04	.12	.60
FACTOR 3: O1;F5 PERCEPTUAL SPEED .....P; ORDER 1										
3 +30 PERC. SPEED: NO. CHECKING (R3)	.64	.01	.38	-.00	-.12	-.02	.09	-.09	-.15	.60
4 +28 PERC. SPEED: CANCELLATION (R1)	.51	-.03	.28	.11	.00	.08	.06	.04	-.04	.37
5 +29 PERC. SPEED: PICT. DISCRIM(R2)	.44	-.00	.27	.06	-.01	.25	-.04	.10	.15	.37
FACTOR 4: O1;F6 TEST-TAKING SPD(VERBAL) ..R9; ORDER 1										
6 +#9 VOCAB. 7: LAST ITEM ATTEMPTED	.46	.06	.01	.38	.09	.01	-.054	.465	.22	.64
FACTOR 5: O2;F2 GEN'L LEVEL (VZ;RQ;V) ....2V; ORDER 2										
FACTOR 6: O1;F2 VISUALIZATION (LEVEL) ....VZ; ORDER 1										
7 +15 INTERSECTIONS (SPEEDED:2)	-.08	.02	-.05	.04	.32	.67	-.06	-.014	.585	.91
8 +16 INTERSECTIONS (SPEEDED:3)	-.04	.05	-.06	.04	.32	.66	-.00	-.064	.615	.92
9 +14 INTERSECTIONS (SPEEDED:1)	-.05	.02	-.05	.06	.36	.65	-.04	.004	.535	.85
10 +12 INTERSECTIONS (LEVEL:2)	-.10	-.01	.01	-.05	.36	.65	-.00	-.044	.405	.73
11 +13 INTERSECTIONS (MOD'Y SPEEDED)	-.14	-.04	-.02	.01	.36	.62	.08	-.034	.445	.73
12 +11 INTERSECTIONS (LEVEL:1)	-.08	-.04	.05	-.05	.41	.59	.09	-.02	.26	.60
13 +10 SPATIAL RELATIONS (ADMISSIONS)	-.04	.06	.02	-.11	.12	.41	.09	.044	.415	.38
FACTOR 7: O1;F3 QUANT. REASONING(LEVEL) ..RQ; ORDER 1										
14 +21 ARITH. REASONING (MOD SPEEDED)	.12	-.01	.07	-.01	.22	-.03	.76	-.02	.02	.64
15 +18 MATHEMATICS (ADMISSIONS TEST)	.17	.07	.09	-.12	.19	-.03	.70	.03	-.00	.59
16 +19 ARITH. REASONING (LEVEL:1) ...	.05	-.03	.04	-.01	.30	.02	.68	-.02	-.03	.56
17 +23 ARITH. REASONING (SPEEDED:2) .	.20	.03	.04	.06	.20	.03	.64	-.01	.16	.53
18 +20 ARITH. REASONING (LEVEL:2)....	-.11	.04	.00	-.01	.37	.04	.64	-.03	-.03	.56
19 +22 ARITH. REASONING (SPEEDED:1) .	.23	.15	-.08	.10	.23	.00	.61	.00	.29	.60
20 +24 ARITH. REASONING (SPEEDED:3) .	.26	.15	-.06	.09	.25	-.01	.55	.06	.20	.51
FACTOR 8: O1;F1 LEXICAL KNOWLEDGE (LEVEL).VL; ORDER 1										
21 +#5 VOCABULARY (MODERATELY SPEEDED	.03	.07	-.02	.02	.18	.02	-.08	.90	-.05	.86
22 +#2 VERBAL (ADMISSION TEST)	-.02	.02	.04	-.04	.21	.03	.04	.87	-.13	.83
23 +#7 VOCABULARY (SPEEDED:2) .....	.24	-.03	.024	.305	.18	-.01	-.02	.87	.03	.93
24 +#3 VOCABULARY (LEVEL:1)	-.01	-.01	.01	.04	.18	.00	-.00	.81	-.11	.70
25 +#8 VOCABULARY (SPEEDED:3).....	.25	-.02	-.014	.365	.16	-.03	.02	.79	.11	.86

26	+ #4 VOCABULARY (LEVEL:2)	.....	-.01	-.10	.05	.09	.30	.03	.09	.77	-.22	.75
27	+ #6 VOCABULARY (SPEEDED:1)19	-.05	.03	.27	.16	.03	.03	.75	.07	.70
28	+ #1 WORD FLUENCY (REF. TEST)28	.07	.03	.13	.23	.09	-.04	.27	-.02	.23

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(CONTINUED)

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FACTOR 9: O1;F7 TEST-TAKING SPD(VZ;RQ) ...R9; ORDER 1										
29 +17 INTERSECT'NS 15:LAST ITEM ATTD	.11	.10	-.10	.16	.104	.345	-.18	.06	.51	.48
30 +25 ARITH. REAS'G 23:LAST ITEM ATT4	.335	.13	.01	.12	.04	.03	.19	.09	.27	.26
SMSQ: 2.62 .47 .36 .58 1.66 2.83 3.18 5.09 2.28 19.08										

*** 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;F4 NUMERICAL FACILITY(SPEED)..N	.82	.29	.76
HF 3 O1;F5 PERCEPTUAL SPEED .....P	.784	-.365	.74
HF 4 O1;F6 TEST-TAKING SPD(VERBAL) ..R9	.694	.375	.61
FACTOR 5: O2;F2 GEN'L LEVEL (VZ;RQ;V) ....2V; ORDER 2			
HF 6 O1;F2 VISUALIZATION (LEVEL) ....VZ	-.01	.76	.57
HF 7 O1;F3 QUANT. REASONING(LEVEL) ..RQ	.06	.40	.17
HF 8 O1;F1 LEXICAL KNOWLEDGE (LEVEL).VL	-.09	.09	.02
HF 9 O1;F7 TEST-TAKING SPD(VZ;RQ) ...R9	-.09	-.65	.43
SMSQ: 1.78 1.51 3.29			