

TAYL51

TAYLOR TR

THE FACTOR STRUCTURE OF GEOMETRIC ILLUSIONS; A 2ND STUDY

PSYCHOLOGIA AFRICANA 1976 16 177-200

N=208

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

V#	1	2	3	4	5	6	7	8	H^2
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FACTOR 1: O2;F1 GEN'L/ILLUSIONS2*; ORDER 2

FACTOR 2: O1;F1 ILLUSIONS/POGGENDORFFIL; ORDER 1

1 +23	POGGENDORFF 2CM 30@		.58	.53	-.00	-.01	.06	-.08	.08	.01	.63
2 +29	POGGENDORFF 3CM 30@ ILL'N		.55	.48	-.03	.08	-.06	.11	-.07	.05	.56
3 +17	JASTROW ILLUSION		.27	.31	.04	-.06	-.24	.25	-.08	-.09	.31
4 +13	POGGENDORFF TRIANG.ILLUSN		.32	.21	.08	.04	-.05	.17	-.06	.03	.19
5 +16	SQUARES ILLUSION		.26	.20	-.05	.03	.05	-.01	.12	.24	.18

FACTOR 3: O1;F3 ILLUSIONS/HERING ETC.IL; ORDER 1

6 +28	HERING ILLUSION		.47	-.01	.57	.09	-.06	.05	-.02	.05	.56
7 +26	ZO"LLNER ILLUSION		.50	.03	.36	.21	.01	.28	.12	.04	.52
8 +14	WUNDT ILLUSION		.45	.21	.33	-.06	.07	-.06	.02	-.03	.37
9 +30	TOLANSKY ILLUSION		.18	-.14	.32	.18	.06	-.02	-.18	-.18	.25

FACTOR 4: 01;F4 ILLUSIONS/SANDERS ETC.IL; ORDER 1

10 +21 SANDER ILLUSION	.33	-.03	.13	.41	-.01	-.09	.08	-.01	.31
11 +19 MUELLER-LYER ILLUSION ...	.29	.05	-.02	.41	.06	-.04	-.25	.06	.33
12 +20 BISECTED VERTICAL ILLUSN	.14	.00	-.13	.37	.03	-.05	-.03	-.04	.18
13 +25 HORIZONTAL-VERTICAL ILL'N	.22	-.01	-.02	.35	-.06	.09	-.05	.25	.25
14 +#7 ARITHMETICAL PROBLEMS ...	.26	-.05	.06	.35	.09	.01	-.084	.315	.31
15 +24 PONZO ILLUSION	.36	.06	.07	.34	-.07	.26	-.00	-.02	.32
16 +#8 GOTTSCHALDT FIGURES	.34	-.02	.01	.324	.325	.09	.17	.24	.41
17 +27 PERSPECTIVE ILLUSION	.43	.07	.21	.30	-.01	.01	.04	-.07	.33

FACTOR 5: 01;F2 PERCEPTUAL SPEED?P; ORDER 1

18 +#4 IDENTICAL PICTURES	.11	-.02	-.06	.04	.62	-.05	-.21	.01	.45
19 +#3 HIDDEN PATTERNS/SPEED ...	.24	.03	.00	.06	.60	.08	-.03	-.05	.44
20 +#9 TARGET RECOGNITION	.19	-.00	.07	-.02	.57	-.20	.02	.26	.48
21 +#5 MAZE TRACING	.13	.01	.04	-.09	.51	-.01	-.13	.27	.37
22 +12 TEMPERAMENT	.01	.01	-.08	-.05	.29	.00	.07	.08	.10

FACTOR 6: 01;F6 ILLUSIONS/EHRENSTEINIL; ORDER 1

23 +22 EHRENSTEIN ILLUSION	.20	-.04	-.01	.18	-.02	.63	.28	.09	.55
24 +18 GATTI ILLUSION	.01	-.04	-.08	.03	.07	.57	.05	-.10	.35
25 +15 INVERTED V ILLUSION	.20	.05	.06	-.05	.06	.464	.365	.03	.40

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	H^2
FACTOR 7: O1;F7 CLOSURE SPEED?CS; ORDER 1									
26 +#1 GESTALT COMPLETION	.21	-.00	.06	.064	.305	-.03	.40	-.03	.30
27 -11 R.E.S.T. (ANXIETY)	.01	.02	.04	.02	.02	-.04	-.41	.07	.17
FACTOR 8: O1;F5 UNINTERPRETEDI0; ORDER 1									
28 +#6 MENTAL ALERTNESS	.27	.03	-.02	.20	.21	-.01	-.00	.67	.60
29 +#2 HIDDEN PATTERNS/ACCURACY.	.15	.03	-.01	.06	.01	-.064	.365	.37	.30
30 -10 TILTING ROOM/ " CHAIR ...	.13	.04	.11	-.00	.06	.13	-.09	-.15	.08
SMSQ: 2.68 .78 .82 1.23 1.76 1.29 .93 1.11 10.61									

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

HF # 1ST-ORD FACTOR

1 H^2

FACTOR 1: O2;F1 GEN'L/ILLUSIONS2*; ORDER 2

HF 2 O1;F1 ILLUSIONS/POGGENDORFFIL	.73	.54
HF 3 O1;F3 ILLUSIONS/HERING ETC.IL	.59	.35
HF 4 O1;F4 ILLUSIONS/SANDERS ETC. ...IL	.55	.31
HF 5 O1;F2 PERCEPTUAL SPEED?P	.27	.07
HF 6 O1;F6 ILLUSIONS/EHRENSTEINIL	.14	.02
HF 7 O1;F7 CLOSURE SPEED?CS	.13	.02
HF 8 O1;F5 UNINTERPRETEDIO	.09	.01

SMSQ: 1.31 1.31
