

SMIT 52

SMITH OW/SMITH PC

DEVELOPMENTAL STUDIES OF SPATIAL JUDGMENTS BY CHILDREN AND ADULTS

PERCEPTUAL & MOTOR SKILLS 1966 22 3-73 MONOG SUPPLT 1-V22

PEARSON R'S TABLE B (OLDER GROUP) ADI DOC 8708

46 M;39 F AGE 12+ INCLUDING ADULTS

N=85

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

V#	1	2	3	4	5	6	7	8	9	10	11	H^2
FACTOR 1: O2;F1 BROAD VISUAL PERCEPTION ..2V; ORDER 2												
FACTOR 2: O1;F3 FRACTIONAL JUDGMENTS .....LE; ORDER 1												
1 -23 ELEV'D BINOC JUDGMENTS .....	.49	.79	-.22	-.01	-.01	-.00	.00	-.15	.17	.00	.03	.97
2 -24 FRACTIONATION/BINOC VISION ...	.54	.65	.02	.02	.02	.02	-.10	-.03	.02	-.02	-.02	.73
3 +10 RESP-PRODUCED STIM/DISTANCE 2.	.15	.31	-.05	-.27	.04	.15	-.02	.03	-.05	.044	-.335	.34
4 +16 SPATIAL ALIGNMENT .....	.02	-.19	-.00	.20	.01	.19	-.08	.21	-.00	-.16	.01	.19
FACTOR 3: O1;F8 SIZE CONSTANCY .....LE; ORDER 1												
5 -28 SIZE CONST'CY/RESTRIC'D VISION	.35	.03	.59	-.14	.04	-.17	.14	.14	.01	.19	.03	.60
6 -30 SIZE CONST'CY/UNRESTRIC.VISION	.15	-.02	.584	-.365	-.02	.03	.00	.01	-.034	.305	.02	.59
7 +21 BINOC DISTANCE/MONOC STANDARD	.11	-.04	.42	-.01	-.22	.02	.00	-.20	-.03	-.02	.02	.28
8 -#7 MONOC.JUDGMNTS CURVED SURFACES	.11	.05	.24	-.03	-.15	.16	-.12	-.03	.05	.20	.24	.24

FACTOR 4: O1;F1 LENGTH ESTIMATION(ALT) ...LE; ORDER 1

9	+15 VISUAL DIRECTION III	.46	.02	-.01	.62	-.01	.22	.00	.01	.01	-.00	.02	.65
10	-29 DISTANCE JUDGM'S/FAMILIAR SIZE	.27	-.09	.03	.53	.05	.01	-.114	.445	.10	-.01	.16	.61
11	-33 DIST/UNFAMILIAR/VIS RESTRICTED	.05	-.02	.00	.46	-.26	.044	-.3954	.485	.28	.14	.00	.76
12	+14 VISUAL DIRECTION II	.47	.08	.00	.37	.17	.27	-.01	.00	-.05	-.03	-.03	.47
13	-31 DISTANCE/UNRESTRICTED VISION	.05	-.05	-.22	.24	.10	.07	.01	.09	.18	.03	.05	.17

FACTOR 5: O1;F2 ARM LENGTH EST'M/DISTANCE.LE; ORDER 1

14	+20 ARM LENGTH EST'D FROM 18 FT;II	.29	-.04	.03	-.00	.78	-.16	-.01	-.02	.03	.05	.01	.72
15	+19 ARM LENGTH EST'D FROM 18 FT;I	.37	.05	-.02	-.05	.68	-.00	.06	.01	.02	.28	-.12	.70
16	+9 RESP-PRODUCED STIM/DISTANCE 1.	-.02	-.03	-.024	-.365	.46	.04	.00	.01	.14	-.04	.13	.38
17	-17 MOTION PERCEPTION I	.51	.04	.26	.03	.43	-.01	.26	.02	-.29	.24	.00	.73
18	+13 VISUAL DIRECTION I	.08	-.25	-.02	.17	.37	.08	-.03	.13	-.28	.14	.17	.38

FACTOR 6: O1;F4 V;S;AGE;CURVATURE JUDG'S..LE; ORDER 1

19	+2 AMMONS F-R PICTURE VOCABULARY.	.42	-.00	.16	.00	.03	.70	.014	.385	-.04	.01	.19	.88
20	+4 FORMBOARD (SPECIALLY DEvised)	.22	-.01	-.02	.16	-.16	.61	.02	.04	.04	.014	.395	.63
21	+1 AGE	.41	.01	.05	.024	.335	.48	-.03	.27	-.01	-.03	-.00	.59
22	-26 BINOC VAR & STAND/DELAYED JUDG	.06	.01	.03	-.17	-.05	.39	.00	-.06	.05	.01	-.09	.20
23	-8 BINOC.JUDGMENTS OF CURVATURE	.24	-.024	.345	.00	-.13	.39	-.18	.10	.05	.26	.01	.45
24	-18 MOTION PERCEPTION II	.32	.18	.18	.06	.17	-.20	.03	.04	-.05	.01	-.03	.24

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	9	10	11	H^2
FACTOR 7: 01;F5 LENGTH ESTIMATION(ALT) ...LE; ORDER 1												
25 -34 SIZE CONST'CY/NO DISTANCE CUES	.34	.01	.01	-.00	-.01	.00	.82	.20	.01	.05	-.12	.84
26 +35 DISTANCE JUDGMENT OF SPOT ....	.10	-.01	-.01	-.28	.04	.02	.72	-.02	-.17	-.04	-.00	.64
27 +39 ELEV'D MONOC VAR & STANDARD ..	.25	.00	.22	.24	-.01	.19	-.28	-.03	.21	-.12	-.04	.35
FACTOR 8: 01;F9 LENGTH ESTIMATION(ALT) ...LE; ORDER 1												
28 +40 MOTION PARALLAX	-.01	.05	-.00	-.11	-.01	-.03	.00	.52	.06	-.22	.20	.37
29 -37 SIZE CONST'CY/BALL/VIS UNRESTR	.16	-.02	.24	-.03	-.11	-.02	.15	.47	-.05	.02	.01	.34
30 +#3 LENGTH OF ARM (INCHES) .....	.24	-.19	-.034	.405	.23	.29	-.22	.47	-.09	-.10	.11	.69
31 -32 SIZE CONST'CY/UNFAMIL/RESTRIC.	.40	-.024	.355	.01	-.05	.004	.455	.46	.04	-.02	-.03	.70
32 -36 SIZE CONST'CY/SPOT/VIS UNRESTR	.09	-.00	-.01	-.00	-.04	.21	.03	.31	-.03	.09	.03	.16
FACTOR 9: 01;F10 -UNRESTR'D DIST.JUDG'S...LE; ORDER 1												

33	-25 BINOC VAR & STAND.DISTANT OBJ.	.13	-.01	-.03	.22	.01	-.01	.03	-.04	.79	-.03	.04	.69
34	-38 BINOC.VAR NEAR/BINOC STANDARD.	.07	.12	.00	.01	-.10	-.01	-.04	.04	.71	.25	-.05	.60
35	+22 MONOC NEAR/MONOC STANDARD ....	.18	.03	.21	.17	-.15	.17	-.19	-.18	.30	.05	-.00	.32
36	-27 BINOC VAR & STAND/NO DELAY ...	.00	-.09	.05	-.24	.03	.22	.20	-.09	.29	.02	-.25	.31

FACTOR 10: O1;F7 VISUAL ACUITYVC; ORDER 1

37	+5 VISUAL ACUITY/RIGHT EYE .....	.06	.01	.20	-.01	.02	-.03	-.26	.01	.03	.94	.00	1.01
38	+6 BINOCULAR ACUITY	-.01	-.03	-.00	.02	-.02	.02	-.00	-.05	-.06	.73	-.01	.54

FACTOR 11: O1;F6 UNDERSTIMATE ARM LENGTH ..LE; ORDER 1

39	-12 RESP-PRODUCED STIM/DISTANCE 4.	-.01	.03	.01	-.00	.00	-.00	-.01	.03	-.04	.02	.91	.83
40	-11 RESP-PRODUCED STIM/DISTANCE 3.	.06	-.05	.10	.01	.23	-.10	.00	-.04	-.28	.01	.77	.75

SMSQ: 2.79 1.38 1.60 2.00 2.13 1.97 2.01 1.92 1.82 2.03 2.01 21.66

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