

SMIT 51  
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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 A (CHILD GROUP) ADI DOC 8708  
54 M; 43 F AGE 5-11 YEARS

N=97

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

V#	1	2	3	4	5	6	7	8	9	10	H^2
FACTOR 1: O1;F1 AGE;V;CURVATURE JUDGMENTS.LE; ORDER 1											
1 +#1 AGE	.89	.04	.03	.29	.04	-.02	-.21	.05	.01	.13	.95
2 +#2 AMMONS F-R PICTURE VOCABULARY	.79	.03	.02	.26	.01	.06	-.15	.09	.08	.14	.75
3 +#3 LENGTH OF ARM (INCHES)	.77	.04	.10	.12	.05	.04	-.20	.04	-.03	.11	.68
4 -#7 MONOC.JUDGMNTS CURVED SURFACES	.45	-.02	.02	.03	.19	-.15	.26	-.02	-.20	-.26	.44
5 +16 SPATIAL ALIGNMENT	.39	.02	.07	-.05	-.02	.07	.14	.01	.13	.09	.21
6 -#8 BINOC.JUDGMENTS OF CURVATURE	.32	-.14	-.03	.18	.13	.25	.11	-.16	-.28	-.17	.38
7 -#9 RESP-PRODUCED STIM/DISTANCE 1	.30	-.04	.25	.02	-.17	-.00	.14	.13	-.24	-.12	.29
8 +14 VISUAL DIRECTION II	.29	.05	.05	.15	.09	.03	-.00	.15	-.17	.29	.26
FACTOR 2: O1;F2 SIZE CONSTANCY .....LE; ORDER 1											
9 +32 SIZE CONST'CY/UNFAMIL/RESTRIC	-.07	.75	-.05	-.05	-.16	.10	.17	.16	-.04	-.18	.70
10 +34 SIZE CONST'CY/NO DISTANCE CUES	-.05	.73	-.02	.11	.03	.15	.04	.11	.09	.01	.60
11 -35 DISTANCE JUDGMENT OF SPOT ....	.23	.59	.02	-.07	.06	-.04	-.09	-.11	-.09	.14	.46
12 +28 SIZE CONST'CY/RESTRIC'D VISION	.08	.53	-.28	-.12	-.20	-.014	.465	-.11	.06	-.03	.65
13 -33 DIST/UNFAMILIAR/VIS RESTRICTED4	.395	.41	-.09	-.12	.18	.02	-.12	-.06	-.10	.06	.41
14 +37 SIZE CONST'CY/BALL/VIS UNRESTR	-.05	.34	-.03	.07	-.16	.18	.29	.02	.18	-.27	.37
FACTOR 3: O1;F3 VISUAL ACUITY .....VC; ORDER 1											
15 +#6 BINOCULAR ACUITY	.07	-.03	.89	.04	.00	.01	-.01	-.07	-.01	.13	.82
16 +#5 VISUAL ACUITY/RIGHT EYE	.12	-.09	.84	-.08	-.03	-.04	-.08	-.10	-.01	.05	.76
17 -10 RESP-PRODUCED STIM/DISTANCE 2	-.03	-.00	.26	.19	.10	.04	.02	-.05	-.26	-.16	.21
18 -29 DISTANCE JUDGM'S/FAMILIAR SIZE	.21	-.01	-.32	-.04	.02	-.15	.22	-.21	-.084	.315	.36
FACTOR 4: O1;F4 FRACTIONATION JUDGMENTS...LE; ORDER 1											
19 -24 FRACTIONATION/BINOC VISION ...	.19	-.02	-.16	.61	-.05	-.03	.00	.06	-.01	-.10	.45
20 +#4 FORMBOARD (SPECIALLY DEvised) 4	.475	-.02	-.02	.58	.01	-.01	-.12	.12	.10	-.11	.61
21 -23 ELEV'D BINOC JUDGMENTS	.14	.02	.08	.50	.04	.09	.06	.01	.03	.10	.30
22 -31 DISTANCE/UNRESTRICTED VISION	.12	.07	.20	.404	.335	.06	.12	-.22	.05	.20	.44
23 -26 BINOC VAR & STAND/DELAYED JUDG	.12	.05	-.05	-.19	.08	.00	.03	.06	.10	-.06	.08
FACTOR 5: O1;F5 ARM LENGTH EST'M/DISTANCE.LE; ORDER 1											
24 +19 ARM LENGTH EST'D FROM 18 FT;I	.21	-.03	-.08	.16	.75	.05	-.21	-.08	-.11	-.08	.71
25 +20 ARM LENGTH EST'D FROM 18 FT;II	.02	-.07	.05	-.07	.61	.16	-.12	-.03	-.01	-.01	.43
26 +27 BINOC VAR & STAND/NO DELAY ...	-.04	.01	-.23	-.04	.30	-.03	.11	.13	-.13	.29	.28

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(CONTINUED)

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FACTOR 6: O1;F6 UNDERESTIMATE ARM LENGTH..LE; ORDER 1													
27	-11 RESP-PRODUCED STIM/DISTANCE 3.	.02	.03	-.04	.12	.21	.76	-.04	-.05	.03	.16	.67	
28	-12 RESP-PRODUCED STIM/DISTANCE 4.	.01	.16	.02	-.00	.04	.74	.04	.03	.01	.05	.59	
29	+13 VISUAL DIRECTION I .....	.28	.05	.13	-.05	-.02	.35	.28	.06	.05	-.07	.31	
FACTOR 7: O1;F7 MOTION PARALLAX JUDGMENTS.LE; ORDER 1													
30	+30 SIZE CONST'CY/UNRESTRIC.VISION	-.05	.14	-.07	-.04	-.07	.05	.55	.04	-.00	.14	.36	
31	+18 MOTION PERCEPTION II .....	-.06	-.02	-.02	.05	-.04	.01	.42	-.05	.02	-.02	.19	
32	-40 MOTION PARALLAX .....	-.01	.21	.16	.10	-.03	-.09	.24	.14	-.01	-.08	.17	
FACTOR 8: O1;F8 UNRESTR'D DIST. JUDGMENTS.LE; ORDER 1													
33	+25 BINOC VAR & STAND.DISTANT OBJ.	-.09	.03	-.08	.16	-.08	-.11	-.04	.59	.05	.05	.42	
34	+39 ELEV'D MONOC VAR & STANDARD ..	.02	-.06	-.034	-.325	-.14	.14	.10	.59	.00	-.01	.50	
35	+38 BINOC.VAR NEAR/BINOC STANDARD.	.18	.08	.01	.02	.09	-.06	-.08	.46	-.12	.02	.28	
36	+21 BINOC DISTANCE/MONOC STANDARD 4	.325	.06	-.08	.05	-.00	.16	.03	.39	.03	-.06	.30	
FACTOR 9: O1;F9 LENGTH ESTIMATION(ALT)...LE; ORDER 1													
37	+22 MONOC NEAR/MONOC STANDARD ....	.26	.05	-.08	.15	-.02	-.01	-.08	-.02	.81	-.09	.77	
38	-17 MOTION PERCEPTION I .....	.06	.04	-.06	.01	.05	-.05	-.16	.03	-.28	.09	.13	
39	+15 VISUAL DIRECTION III .....	.4	.315	.02	.01	.204	-.415	-.124	-.355	.10	-.42	-.07	.63
FACTOR 10: O1;F10 LENGTH ESTIMATION(ALT)...LE; ORDER 1													
40	-36 SIZE CONST'CY/SPOT/VIS UNRESTR	.14	-.06	.10	.06	-.05	.18	.02	-.03	-.02	.52	.34	
SMSQ:		3.70	2.19	2.07	1.74	1.65	1.60	1.51	1.40	1.34	1.05	18.26	

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