

MOUR 01

MOURS Y EM
THE HIERARCHICAL ORGANIZATION OF COGNITIVE LEVELS
BRIT J STAT PSYCHOL 1952 5 151-180
PEARSON R'S TABLE 1 P. 164
BOYS AGE 10.0-11.0 IN 4 'AVERAGE' LONDON SCHOOLS

N=166

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

| V# | 1 | 2 | 3 | 4 | 5 | 6 | 7 | H^2 |
|--|-----|------|------|------|------|------|------|-----|
| FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY .3G; ORDER 3 | | | | | | | | |
| FACTOR 2: O2;F1 FLUID INTELLIGENCE2F; ORDER 2 | | | | | | | | |
| FACTOR 3: O1;F2 RETRIEVAL ABILITYCY; ORDER 1 | | | | | | | | |
| 1 +11 MEMORY FOR SHAPES | .70 | .36 | .18 | -.02 | -.03 | -.02 | .00 | .66 |
| 2 +12 IMAGERY | .69 | .34 | .16 | .02 | -.02 | -.01 | .01 | .63 |
| 3 +10 MEMORY FOR NUMBERS | .64 | .29 | .14 | .03 | .01 | .04 | .00 | .52 |
| 4 +13 ASSOCIATION | .65 | .29 | .11 | .15 | .01 | .01 | .01 | .55 |
| FACTOR 4: O1;F1 REASONINGRG; ORDER 1 | | | | | | | | |
| 5 +17 COMPLETION | .62 | .23 | -.01 | .61 | .07 | -.01 | -.01 | .81 |
| 6 +15 VERBAL ANALOGIES | .62 | .23 | .00 | .60 | .06 | -.01 | -.04 | .80 |
| 7 +14 SYNONYMS & OPPOSITES ... | .65 | .21 | -.01 | .60 | .10 | .07 | -.01 | .84 |
| 8 +18 SYLLOGISMS..... | .63 | .20 | -.02 | .57 | .10 | -.01 | .08 | .78 |
| 9 +20 MENTAL AGE | .68 | .27 | .02 | .56 | .05 | -.05 | .01 | .86 |
| 10 +16 NON-VERBAL ANALOGIES ... | .66 | .24 | .01 | .54 | .07 | -.01 | .02 | .79 |
| 11 +19 NUMBER SERIES..... | .67 | .23 | .02 | .51 | .08 | .03 | .02 | .77 |
| FACTOR 5: O2;F2 BROAD VISUAL PERCEPTION .2V; ORDER 2 | | | | | | | | |
| FACTOR 6: O1;F4 SENSORY-MOTOR PROCESSES .TP; ORDER 1 | | | | | | | | |
| 12 +1 TOUCH DISCRIMINATION ... | .31 | -.03 | .01 | .01 | .17 | .45 | -.11 | .33 |
| 13 +2 WEIGHT DISCRIMINATION .. | .31 | -.02 | .01 | -.02 | .17 | .39 | -.04 | .28 |
| 14 +4 WRITING SPEED | .33 | -.02 | -.00 | -.01 | .18 | .37 | .03 | .28 |
| 15 +3 REACTION-TIME | .31 | -.03 | -.01 | -.00 | .17 | .36 | .03 | .26 |
| FACTOR 7: O1;F3 VISUALIZATIONVZ; ORDER 1 | | | | | | | | |
| 16 +7 SORTING SHAPES | .46 | .08 | .00 | .00 | .14 | -.02 | .45 | .43 |
| 17 +9 PERCEPTION PATTERNS | .44 | .07 | .01 | -.03 | .14 | .04 | .38 | .36 |
| 18 +6 CHECKING | .38 | -.01 | -.05 | .12 | .19 | .16 | .30 | .31 |
| 19 +5 COUNTING | .42 | .05 | -.00 | .02 | .15 | .11 | .30 | .31 |
| 20 +8 PERCEPTION TESTS..... | .44 | .04 | -.00 | .04 | .17 | .18 | .23 | .32 |
| SMSQ: 6.05 .81 .09 2.34 .29 .70 .61 10.89 | | | | | | | | |

MOURSY EM

THE HIERARCHICAL ORGANIZATION OF COGNITIVE LEVELS
BRIT J STAT PSYCHOL 1952 5 151-180
PEARSON R'S TABLE 1 P. 164
BOYS AGE 10.0-11.0 IN 4 'AVERAGE' LONDON SCHOOLS

N=166

(CONTINUED)

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

| HF # | 1ST-ORD FACTOR | 1 | 2 | 5 | H^2 |
|------|---|------|------|------|------|
| | FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY ..3G; ORDER 3 | | | | |
| | FACTOR 2: O2;F1 FLUID INTELLIGENCE2F; ORDER 2 | | | | |
| HF 3 | O1;F2 RETRIEVAL ABILITYGY | .87 | .43 | -.02 | .95 |
| HF 4 | O1;F1 REASONINGRG | .71 | .26 | .08 | .58 |
| | FACTOR 5: O2;F2 BROAD VISUAL PERCEPTION ..2V; ORDER 2 | | | | |
| HF 6 | O1;F4 SENSORY-MOTOR PROCESSES ..TP | .61 | -.04 | .33 | .49 |
| HF 7 | O1;F3 VISUALIZATIONVZ | .70 | .11 | .22 | .55 |
| | SMSQ: | 2.14 | .27 | .16 | 2.57 |

*** HIERARCHICAL FACTOR MATRIX, ORDER 3 ***

| HF # | 2ND-ORD FACTOR | 1 | H^2 |
|------|---|------|------|
| | FACTOR 1: O3;F1 GEN'L COGNITIVE ABILITY ..3G; ORDER 3 | | |
| HF 2 | O2;F1 FLUID INTELLIGENCE2F | .91 | .82 |
| HF 5 | O2;F2 BROAD VISUAL PERCEPTION ..2V | .91 | .82 |
| | SMSQ: | 1.64 | 1.64 |

=====