In Person: Cognition - Number Series Task

JMCARDLE  Cognition - Number Series Task

OVERVIEW

The McArdle & Woodcock number series task measures induction and reasoning ability with particular emphasis on quantitative reasoning. Each item consisted of a series of numbers (e.g., 23, 26, 30, 35, __) and participants were asked to identify the number that correctly completed the series. There are 15 different questions but each participant was only asked to answer six of them. All participants saw the same three items in the first block of questions. The number of items answered correctly determined the difficulty of the three items in a second block. Thus, each participant completed six items in total and a score was calculated based on which second block was completed and how many answers were correct in each block. No time restriction was provided for this task.

Participants who refused the entire module before they were asked the first number series, have code -3 in the variable HI615RE. They also get the code -3 for each of the 15 individual questions (HI600RE – HI614RE). People who refused the module after they heard at least one of the questions are coded -10 for the first question in which they refused and are coded -3 for every subsequent question.

More information about these measures can be found here: http://alpha.fdu.edu/psychology/woodcock_cog_descrip.htm

BRIEF VARIABLE DESCRIPTIONS

Variable names do not reflect actual item numbers from the original McArdle & Woodcock test in any way. Numbers within the variable names correspond to the order in which the questions were asked or potentially asked.

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>HMCASTAT-HMCAREL:</td>
<td>Module-Level Status Variables.</td>
</tr>
<tr>
<td>HI600RE-HI614RE:</td>
<td>Variables indicating participant’s responses to number series questions.</td>
</tr>
<tr>
<td>HI600RET-HI614RET:</td>
<td>Variables indicating the amount of time it took to answer questions</td>
</tr>
<tr>
<td></td>
<td>corresponding with variable name.</td>
</tr>
<tr>
<td>HI615RE:</td>
<td>Variable gives a number (0-3) that indicates the number of correct</td>
</tr>
<tr>
<td></td>
<td>questions out of the first three and determines the route taken in the</td>
</tr>
<tr>
<td></td>
<td>second half of number series task.</td>
</tr>
<tr>
<td>HI616RE:</td>
<td>What group of questions participant received and global refusal during</td>
</tr>
<tr>
<td></td>
<td>introduction.</td>
</tr>
<tr>
<td>HISimpleScore:</td>
<td>Score determined by adding the number of correct answers together, extra</td>
</tr>
<tr>
<td></td>
<td>points given</td>
</tr>
</tbody>
</table>
for harder questions.

HINSraschScore: Transformed score determined by the correct answers provided on two sets of questions.

hmcastat: Was the Number Series Task Module completed by Participant alone, with help, or by proxy?

Data source: Graduate Participant or Proxy   Collected in: 2011   Mode: In person & telephone
Source variables: y_mcaproxy1, y_mcahelp0, capiproxy, y_proxy, y_ivwloc

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<tr>
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<td>R COMPLETED ALONE</td>
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<td>R COMPLETED ALONE WITH SOMEONE ELSE IN THE ROOM</td>
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<td>12</td>
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<tr>
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<td>R RECEIVED A LOT OF HELP</td>
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Note: For many cases a participant’s spouse or other family member was present during the interview. This sometimes resulted in the participant relying on the other person for help in answering some or many of the questions. At the end of each module the interviewer indicated the amount of help the participant received and who provided that help. That assessment is covered by codes 1 through 5. Additionally, a code of 7 indicates that the entire interview was administered to a proxy while a code of 6 indicates that this particular module was answered by a proxy but other modules were answered by the participant.

hmcarel: Relationship of Number Series Task Module helper or proxy to Participant.

Data source: Graduate Participant or Proxy   Collected in: 2011   Mode: In person & telephone
Source variables: HMCASTAT, y_mcaproxy1, y_mcahelp0, y_mcahelp1, y_mcahelp2_hfn, y_mcahelp3, y_h1fn-y_h4fn, y_pfn, prxyfnam, y_p1fn-y_p5fn, y_prel, prxyrel, y_p1rel-y_p5rel
### Frequencies

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<td>5913</td>
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<td>FRIEND</td>
<td>0</td>
<td>1</td>
<td>1</td>
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<tr>
<td>54</td>
<td>OTHER</td>
<td>1</td>
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Note: If this module was administered via proxy or if the participant received help answering the questions in this module then we record the relationship of the proxy/helper to the participant. Although most participants relied on only one helper or proxy for the interview, some had more than one. Thus the value of the relationship code may vary across the modules.

**hi600re: The first question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_nsa4, y_nsb4
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<td>REFUSED MODULE STARTING WITH THIS QUESTION</td>
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<td>NOT ASCERTAINED</td>
<td>4</td>
<td>3</td>
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<td>REFUSED THIS ITEM</td>
<td>26</td>
<td>35</td>
<td>61</td>
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<td>DON'T KNOW</td>
<td>20</td>
<td>36</td>
<td>56</td>
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<td>INCORRECT</td>
<td>313</td>
<td>430</td>
<td>743</td>
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<td>1</td>
<td>CORRECT</td>
<td>2398</td>
<td>2669</td>
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Note: HI600RE - HI602RE were asked to all participants

**hi601re: The second question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy      Collected in: 2011      Mode: In person
Source variables: y_nsa7, y_nsb7
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<td>CORRECT</td>
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**hi602re: The third question in Mc Ardle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_nsa11, y_nsb11
### Frequencies

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<td>NOT ASCERTAINED</td>
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<td>3</td>
<td>7</td>
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<td>1007</td>
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**hi603re: The fourth question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy

Collected in: 2011 Mode: In person

Source variables: y_nsa1, y_nsb1

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### Frequencies

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<tr>
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<td>PARTIAL INTERVIEW</td>
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<td>NOT ASCERTAINED</td>
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<td>INAP, R refused task at introduction (HI616RE = -3) Did not get 0 of first 3 correct (HI615RE != 0)</td>
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<tr>
<td>-1</td>
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Note: HI603RE - HI605RE were asked to those who answered 0 of the first 3 questions correctly

**hi604re: The fifth question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy      Collected in: 2011      Mode: In person  
Source variables: y_nsa2, y_nsb2
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<td>INAP, R refused task at introduction (HI616RE = -3) Did not get 0 of first 3 correct (HI615RE != 0)</td>
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<td>2865</td>
<td>5413</td>
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**hi605re**: The sixth question in McArdle & Woodcock Number Series Task

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Source variables: y_nsa3, y_nsb3
### Frequencies

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Collect in: 2011  
Mode: In person  
Source variables: y_nsa5, y_nsb5
### Frequencies

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Inappropriate

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Note: HI606RE - HI608RE were asked to those who answered 1 of the first 3 questions correctly

**hi607re: The eighth question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy  Collected in: 2011  Mode: In person
Source variables: y_nsa6, y_nsb6
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Collected in: 2011  
Mode: In person  
Source variables: y_nsa8, y_nsb8
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Collected in: 2011  
Mode: In person  
Source variables: y_nsa9, y_nsb9
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*Note: HI609RE - HI611RE were asked to those who answered 2 of the first 3 questions correctly*

**hi610re: The eleventh question in McArdle & Woodcock Number Series Task**

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Collected in: 2011  
Mode: In person  
Source variables: y_nsa10, y_nsb10
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**hi611re: The twelfth question in McArdle & Woodcock Number Series Task**

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Collected in: 2011  
Mode: In person  
Source variables: y_nsa12, y_nsb12_a, y_nsb12_b
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**hi612re: The thirteenth question in McArdle & Woodcock Number Series Task**

Data source: Graduate Participant or Proxy  Collected in: 2011  Mode: In person
Source variables: y_nsa13, y_nsb13
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Note: HI612RE - HI614RE were asked to those who answered 3 of the first 3 questions correctly

**hi613re: The fourteenth question in McArdle & Woodcock Number Series Task**

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Collected in: 2011  
Mode: In person  
Source variables: y_nsa14, y_nsb14
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**hi614re: The fifteenth question in McArdle & Woodcock Number Series Task**

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Collected in: 2011  
Mode: In person  
Source variables: y_nsa15_a, y_nsa15_b, y_nsb15
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**hi615re: Number of first 3 questions correct**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_nsa, b4-y_nsa, b11
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### hi616re: Group assignment and before module refusals

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Source variables: y/nsintro, y/mcardleflg  
Collected in: 2011  
Mode: In person

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Data source: Graduate Participant or Proxy     Collected in: 2011     Mode: In person

Source variables: y_ns4t

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**hi601ret: Time in hundredths of seconds it took to answer the second question**

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Source variables: y_ns7t
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| -2    | Inappropriate
- INAP, R refused task at introduction (HI616RE = -3) Did not get 0 of first 3 correct (HI615RE != 0) | 25   | 33     | 58    |
| 76 - 903 |                                                                         | 32   | 57     | 89    |
| 908 - 1042 |                                                                     | 38   | 52     | 90    |
| 1043 - 1271 |                                                                     | 35   | 55     | 90    |
| 1272 - 1625 |                                                                     | 32   | 57     | 89    |
| 1630 - 7180 |                                                                     | 43   | 47     | 90    |

**hi604ret**: Time in hundredths of seconds it took to answer the fifth question

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Collected in: 2011  
Mode: In person  
Source variables: y_ns2t
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**hi605ret**: Time in hundredths of seconds it took to answer the sixth question

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Collected in: 2011  
Mode: In person  
Source variables: y_ns3t
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**hi606ret: Time in hundredths of seconds it took to answer the seventh question**

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Mode: In person  
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**hi607ret**: Time in hundredths of seconds it took to answer the eighth question

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**Inappropriate**

-2 INAP, R refused task at introduction (HI616RE = -3) Did not get 1 of first 3 correct (HI615RE != 1)  
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92 - 1535  
144 192 336

1536 - 1979  
139 197 336

1981 - 2553  
141 195 336

2554 - 3564  
151 185 336

3573 - 18561  
153 184 337

**hi608ret**: Time in hundredths of seconds it took to answer the ninth question

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_ns8t
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**hi609ret: Time in hundredths of seconds it took to answer the tenth question**

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Source variables: y_ns9t
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-2

Inappropriate
INAP, R refused task at introduction (HI616RE = -3) Did not get 2 of first 3 correct (HI615RE != 2)

117 -
2089

235 261 496

2090 -
2785

238 258 496

2786 -
3682

209 287 496

3683 -
5256

218 278 496

5257 -
21778

206 291 497

### hi610ret: Time in hundredths of seconds it took to answer the eleventh question

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Collected in: 2011
Mode: In person
Source variables: y_ns10t
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**hi611ret**: Time in hundredths of seconds it took to answer the twelfth question

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Source variables: y_ns12t
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**hi612ret: Time in hundredths of seconds it took to answer the thirteenth question**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_ns13t
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Inappropriate

-2 INAP, R refused task at introduction (HI616RE = -3) Did not get 3 of first 3 correct (HI615RE != 3)

| 406 - 2062 | | | |
| 3304  | 143 | 103 | 246 |
| 3307 - 4961 | | | |
| 4967 - 7662 | | | |
| 7673 - 33047 | | | |

**hi613ret: Time in hundredths of seconds it took to answer the fourteenth question**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_ns14t
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Inappropriate

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**hi614ret**: Time in hundredths of seconds it took to answer the fifteenth question

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Collected in: 2011  
Mode: In person  
Source variables: y_ns15t
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**hinsraschscore: NS Rasch Scoring of all answered questions**

Data source: Graduate Participant or Proxy   Collected in: 2011   Mode: In person
Source variables: y_nsa1-y_nsb15
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**hisimplescore: Simple Score for McArdle Task**

Data source: Graduate Participant or Proxy  
Collected in: 2011  
Mode: In person  
Source variables: y_nsal-y_nsb15
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Note: Simple Score is created by adding the number correctly answered items in the second set plus 3, 6 or 9 points depending on the number of questions correctly answered in the first set (1, 2 or 3 respectively) which determined the difficulty of the second set.

Note: Participants who refused one or more individual items are coded as inapplicable. Participants who answered "Don’t Know" for any item are counted as a wrong answer for the purposes of the summary score.
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