NOTE ABOUT COLORS:

ALL QUESTION TEXT IN BLACK IS FOR THE CORE INTERVIEW.

ALL QUESTION TEXT IN FUCHSIA IS FOR THE EXIT INTERVIEW. ALSO IN FUCHSIA IS ALL OTHER TEXT THAT IS SPECIFIC TO THE EXIT INTERVIEW BUT NOT TO THE CORE.

OTHERWISE, BLACK TEXT FOR CODEFRAMES, INTERVIEWER INSTRUCTIONS, JUMPS AND BRANCHPOINTS, ETC. CAN APPLY TO BOTH THE CORE AND THE EXIT INTERVIEW UNLESS SPECIFIED OTHERWISE OR THERE IS AN EXIT ALTERNATIVE.

ON A BLACK-AND-WHITE HARD COPY OF THE DOCUMENT, THE FUCHSIA TEXT WILL APPEAR SOMEWHAT LIGHTER THAN THE ORIGINAL BLACK.

NOTE ABOUT EXIT INTERVIEW Rs:

ANY NEW SPOUSE/PARTNER THAT AN EXIT INTERVIEW R ACQUIRED SINCE HIS/HER LAST INTERVIEW IS IGNORED FOR THE PURPOSES OF THIS INTERVIEW. SIMILARLY, A SPOUSE/PARTNER WHO WAS REPORTED IN A PREVIOUS WAVE BUT WHO HAS NEVER BEEN INTERVIEWED WILL NOT HAVE AN EXIT INTERVIEW.
MAJOR FLOW CONTROL, CONDITION AND FILL VARIABLES *

THIS IS A REINTERVIEW R (Z076=1);
   THIS IS A NEW SPOUSE/PARTNER OF A REINTERVIEW R (Z076=0);
   THIS IS A NEVER INTERVIEWED R or NEW INTERVIEW R (Z076=5)

THIS IS A SELF INTERVIEW (A009=1);
   PROXY INTERVIEW (A009={2 or 3}) or (A009 NOT 1);
   PROXIED RESPONDENT (A009 NOT 1)

R’s LAST IW MONTH (per Z092), YEAR (per 2093)

R’s AGE (per A019)

R’s FIRST NAME (per X058)

RANDOM VARIABLE FOR NUMBER SERIES SET A VS. SET B: X525={1 OR 2}

RANDOM VARIABLE FOR VERBAL ANALOGIES SET A VS. SET B: X526={1 OR 2}

PROXIED R IS AVAILABLE TO ASK ABOUT SOCIAL SECURITY NUMBER (W305=1)

--------------------------------------------

ALTERNATE WAVE VARIABLE IS SET TO ASK QUESTIONS (D190=0):

\[ D190 = \frac{(A504_{Cur}WaveNdx - 6) \mod 2}{0} \]

I.e., When subtracting the Indices (per A504) for Beginning Wave (Index XX1 for YrXXXX) from Current Wave (Index 8 for 2006), and the result is divided by the Wave Interval of XX2, the Integer Result leaves No Remainder

ALTERNATE WAVE VARIABLE IS NOT SET TO ASK QUESTIONS (D190>0):

\[ D190 = \frac{(A504_{Cur}WaveNdx - 6) \mod 2}{> 0} \]

I.e., Integer Result yields a Remainder

** IN 2014 THIS ALTERNATE WAVE VARIABLE IS SET TO ASK QUESTIONS **

ALTERNATE WAVE VARIABLE IS SET TO ASK QUESTIONS (D290=0):

\[ D290 = \frac{(A504_{Cur}WaveNdx - 5) \mod 2}{= 0} \]

I.e., When subtracting the Indices (per A504) for Beginning Wave (Index XX1 for YrXXXX) from Current Wave (Index 8 for 2006), and the result is divided by the Wave Interval of XX2, the Integer Result leaves No Remainder

ALTERNATE WAVE VARIABLE IS NOT SET TO ASK QUESTIONS (D290>0):

\[ D290 = \frac{(A504_{Cur}WaveNdx - 5) \mod 2}{> 0} \]

I.e., Integer Result yields a Remainder

** IN 2014 THIS ALTERNATE WAVE VARIABLE IS SET TO NOT ASK QUESTIONS **
* A variable fieldname and code reference is shown at its first occurrence in the questionnaire, but in some cases, especially when it is common, is not shown after that.

******************************************************************************************
D001 BRANCHPOINT: IF THIS IS A SELF INTERVIEW (A009=1), GO TO D101 (AFTER D006)

IF THIS IS AN EXIT INTERVIEW (A007=5) or {A LIVING PROXY INTERVIEW (A009={2 or 3}) and LIVING PROXY HAS NOT YET BEEN ASKED QUESTIONS IN SECTION D}, GO TO D501 (AFTER D171/(Tag#=D173) (D ASSIST) & D501 BRANCHPOINT)

IF THIS IS A LIVING PROXY INTERVIEW (A009={2 or 3}) and LIVING PROXY HAS COMPLETED ENTIRE IW THROUGH SECTION W, JUMP BACK FROM END OF IW TO D001, BELOW, AND ASK PROXIED R D001 THROUGH D245

D001
May I speak to PROXIED RESPONDENT NAME (per X058) and ask just a few questions?

1. R WILL TRY  
2. R REFUSED  
5. PROXY REFUSED  
7. R UNABLE TO PARTICIPATE IN MODULE DUE TO LANGUAGE PROBLEM

GO TO END OF IW

D002
I have a few questions about the activities you are doing and how you like to spend your time.

How often do you watch television — often, sometimes, or never?

1. OFTEN  
2. SOMETIMES  
3. NEVER  
8. DK  
9. RF

D003
How often do you visit with family or friends, either in person or on the phone? (Is it often, sometimes or never?)

1. OFTEN  
2. SOMETIMES  
3. NEVER  
8. DK  
9. RF

D004
How often do you read books or magazines for pleasure? (Is it often, sometimes, or never?)

1. OFTEN  
2. SOMETIMES  
3. NEVER  
8. DK  
9. RF
D005
Of all the activities you do, what is your favorite one?

[IWER: PRESS [ENTER] IF NONE]

ACTIVITY

GO TO D101

D006
How often do you do that? Is it often, sometimes, or never?

1. OFTEN  2. SOMETIMES  3. NEVER  8. DK  9. RF

D101
Part of this study is concerned with people's memory, and ability to think about things.
First, how would you rate your memory at the present time?
Would you say it is excellent, very good, good, fair or poor?

1. EXCELLENT  2. VERY GOOD  3. GOOD  4. FAIR

5. POOR  8. DK  9. RF

D102
Compared to [R's LAST IW MONTH (per 2092), YEAR (per 2093)/two years ago], would you say your memory is better now, about the same, or worse now than it was then?

1. BETTER  2. SAME  3. WORSE  8. DK  9. RF
I'll read a set of 10 words and ask you to recall as many as you can. We have purposely made the list long so that it will be difficult for anyone to recall all the words — most people recall just a few. Please listen carefully as I read the set of words because I cannot repeat them. When I finish, I will ask you to recall aloud as many of the words as you can, in any order. Is this clear?

[REW: PROBE AS NEEDED FOR UNDERSTANDING OF TASK. READ THE ITEMS AT A SLOW, STEADY RATE AS THEY COME UP ON THE SCREEN, APPROXIMATELY ONE WORD EVERY TWO SECONDS.]

[REW: IF R REFUSES DURING OR AFTER THE PREAMBLE AND BEFORE ANY WORDS ARE READ, ENTER [CTRL-R] AT THIS SCREEN]

1. CONTINUE  9. RF

GO TO D110

NOTE: ONE OF THESE 4 LISTS IS RANDOMLY ASSIGNED TO EACH R AT VARIABLE X011. EACH R IN A HOUSEHOLD IS ASSIGNED A DIFFERENT LIST. ONLY ASSIGNED WORDS ARE DISPLAYED TO THE IWER, ONE WORD APPEARING PER SCREEN. THE IWER READS EACH WORD TO THE R AS IT APPEARS. THE SCREEN AUTOMATICALLY ADVANCES EVERY 2 SECONDS, SO THE IWER DOES NOT PRESS [ENTER] TO SHOW THE NEXT WORD. THE NUMERICAL CODES FOR THE WORDS ARE NOT SHOWN ON THE SCREEN.

[REW: SELECT CONTINUE AFTER THE LAST WORD]
Now please tell me the words you can recall.

[IWER: PERMIT AS MUCH TIME AS R WISHES — UP TO ABOUT 2 MINUTES]

[IWER: BEGIN TYPING LETTER OF FIRST WORD. IF R DOES NOT RECALL ANY MORE WORDS, TYPE 'Q' TO QUIT AND PRESS [ENTER]]

<table>
<thead>
<tr>
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IWER: PLEASE INDICATE WHETHER ANY OF THE FOLLOWING PROBLEMS OCCURRED IN RELATION TO WORD RECALL.

[IWER: CHOOSE ALL THAT APPLY]

1. R HAD DIFFICULTY HEARING ANY OF THE WORDS
2. INTERRUPTION OCCURRED WHILE YOU WERE READING LIST
3. OTHER PROBLEM (PLEASE SPECIFY)

4. NO PROBLEMS OCCURRED
8. DK
9. RF

NOTE: THE IWER MAY CHOOSE ANY COMBINATION OF SELECTIONS 1, 2 AND 3, OR CODE 4, 8 OR 9 SINGLY.

D110

IF THIS IS QUESTION D110:
Now think about the past week and the feelings you have experienced. Please tell me if each of the following was true for you much of the time during the past week.

IF THIS IS ONE OF QUESTIONS D111 – D117:
(Now think about the past week and the feelings you have experienced. Please tell me if each of the following was true for you much of the time during the past week.)

<table>
<thead>
<tr>
<th>Question</th>
<th>1. YES</th>
<th>5. NO</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>D110</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Much of the time during the past week, you felt depressed. Would you say yes or no?</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D111</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Much of the time during the past week, You felt that everything you did was an effort. (Would you say yes or no?)</td>
<td></td>
<td></td>
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<td>D112</td>
<td></td>
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<td></td>
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<tr>
<td>(Much of the time during the past week...) Your sleep was restless. (Would you say yes or no?)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>D113</td>
<td>(Much of the time during the past week...) You were happy. (Would you say yes or no?)</td>
<td></td>
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<td>----------------------------------------------------------------------------------</td>
<td></td>
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<tr>
<td>D114</td>
<td>(Much of the time during the past week...) You felt lonely. (Would you say yes or no?)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>D115</td>
<td>(Much of the time during the past week...) You enjoyed life. (Would you say yes or no?)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D116</td>
<td>(Much of the time during the past week...) You felt sad. (Would you say yes or no?)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D117</td>
<td>(Much of the time during the past week...) You could not get going. (Would you say yes or no?)</td>
<td></td>
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</tr>
</tbody>
</table>

D120

For this next question, please try to count backward as quickly as you can from the number I will give you. I will tell you when to stop.

[IWER: ALLOW R TO START OVER IF S/HE WISHES TO DO SO]

[IWER: PRESS [ENTER] TO CONTINUE AS SOON AS YOU READ THE NUMBER]

Please start with: 20

1. [enter]  8. DK  9. RF

GO TO D142
D122

[IWER: PRESS [ENTER] TO CONTINUE AS SOON AS R HAS COUNTED 10 NUMBERS, OR STOPS, OR ASKS TO START OVER]

[IWER: CORRECT RESPONSES INCLUDE COUNTING DOWN FROM 19 TO 10 OR FROM 20 TO 11]

1. [enter] 8. DK 9. RF

D124

You may stop now. Thank you.

[IWER: CODE CORRECT IF R COUNTED BACKWARDS FROM 19 TO 10 OR FROM 20 TO 11 WITHOUT ERROR]

[IWER: USE [CTRL-R] IF R REFUSED TO TRY THE TASK]

[IWER: ALLOW R TO START OVER IF S/HE WISHES TO DO SO]

1. CORRECT 5. INCORRECT 6. WANTS TO START OVER 9. RF

GO TO D142

GO TO D142

NOTE: THE IWER MUST SELECT ONE OF THE ABOVE CHOICES. "DON'T KNOW/DK" IS NOT ACCEPTABLE.

D125

Let's try again.

[IWER: PRESS [ENTER] AS SOON AS YOU READ THE NUMBER]

The number to count backward from is: 20

1. [enter] 8. DK 9. RF

D127

[IWER: PRESS [ENTER] AS SOON AS R HAS COUNTED 10 NUMBERS OR STOPS]

[IWER: CORRECT RESPONSES INCLUDE COUNTING DOWN FROM 19 TO 10 OR FROM 20 TO 11]

1. [enter] 8. DK 9. RF
You may stop now. Thank you.

[IWER: CODE CORRECT IF R COUNTED BACKWARDS FROM 19 TO 10 OR FROM 20 TO 11 WITHOUT ERROR]

[IWER: USE [CTRL-R] IF R REFUSED TO TRY THE TASK]

1. CORRECT  5. INCORRECT  9. RF

NOTE: THE IWER MUST SELECT ONE OF THE ABOVE CHOICES. "DON'T KNOW/DK" IS NOT ACCEPTABLE.

Now let's try some subtraction of numbers.

One hundred minus 7 equals what?

[IWER: IF R ADDS 7 INSTEAD, YOU MAY REPEAT QUESTION]

DK  RF

ANSWER

GO TO D148
BRANCHPOINT

And 7 from that

[IWER: THIS IS THE SECOND SUBTRACTION]

DK  RF

ANSWER

GO TO D189

And 7 from that

[IWER: THIS IS THE THIRD SUBTRACTION]

DK  RF

ANSWER

GO TO D189
D145
And 7 from that

[IWER: THIS IS THE FOURTH SUBTRACTION]

ANSWER

  DK    RF

  GO TO D189

D146
And 7 from that

[IWER: THIS IS THE FIFTH SUBTRACTION]

ANSWER

D189
IWER: PLEASE INDICATE WHETHER THE R USED PAPER AND PEN/PENCIL OR ANY OTHER AIDS WHEN COMPLETING THE NUMBER SUBTRACTION.

[IWER: CHOOSE THE MOST APPROPRIATE ANSWER]

  1. R DEFINITELY USED AID
  2. SUSPECT THAT R USED AID, BUT NOT CERTAIN
  3. NO REASON TO THINK R USED AID
  8. DK    9. RF

D148 BRANCHPOINT: IF R REFUSED WORD LISTS ((D103=9) or (D182=13, EQUIVALENT TO D106=13)) or R DID NOT REMEMBER ANY WORDS (D182=12, EQUIVALENT TO D106=12), GO TO D150
A little while ago, I read you a list of words and you repeated the ones you could remember. Please tell me any of the words that you remember now.

[IWER: PERMIT AS MUCH TIME AS R WISHES — UP TO 2 MINUTES]

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GO TO D150 BRANCHPOINT

D191
IWER: PLEASE INDICATE WHETHER THE R WROTE DOWN ANY OF THE WORDS OR USED
SOME KIND OF AID TO RECALL THE WORDS IN THE LIST SINCE THE FIRST
(IMMEDIATE RECALL) PORTION OF THE TEST.

[IWER: CHOOSE THE MOST APPROPRIATE ANSWER]

1. R DEFINITELY USED AID
2. SUSPECT THAT R USED AID,
   BUT NOT CERTAIN
3. NO REASON TO THINK R USED AID
8. DK
9. RF

D150 BRANCHPOINT: IF R's CURRENT AGE IS LESS THAN 65 YEARS OLD (A019<65) AND
THIS IS A REINTERVIEW R (Z076=1), GO TO D159 BRANCHPOINT

D150
We're interested in how memory actually works. We find that even people
with very good memories seem to forget some things from time to time.
The next questions are a little different, but are often asked on
studies about memory.

[IWER: DO NOT PROBE DK/RF IN SECTION D (COGNITION)]

1. CONTINUE
8. DK
9. RF

D151
Please tell me today's date.

[IWER: PROBE MONTH, DAY, YEAR, DAY OF WEEK]

THE DATE IS: MONTH/DAY/YEAR
THE DAY IS: DAY OF WEEK

NOTE: THE DATE AND DAY OF WEEK ARE DISPLAYED FOR THE IWER TO COMPARE
WITH R's RESPONSES.

D151
MONTH:
1. MONTH OK
5. MONTH NOT OK
8. DK
9. RF

D152
DAY:
1. DAY OF MONTH OK
5. DAY OF MONTH NOT OK
8. DK
9. RF

D153
YEAR:
1. YEAR OK
5. YEAR NOT OK
8. DK
9. RF
D154  
(What is the day of the week?)

DAY OF WEEK:  
1. DAY OK  
5. DAY NOT OK  
8. DK  
9. RF

D155

Now I'm going to ask you for the names of some people and things.

What do people usually use to cut paper?

1. SCISSORS OR SHEARS ONLY  
5. NOT CORRECT  
8. DK  
9. RF

D156

What do you call the kind of prickly plant that grows in the desert?

1. CACTUS OR NAME OF KIND OF CACTUS  
5. NOT CORRECT  
8. DK  
9. RF

D157

Who is the President of the United States right now?

[IWER: ANSWER IS OBAMA]

[IWER: PROBE FOR LAST NAME]

1. LAST NAME CORRECT  
5. NOT CORRECT  
8. DK  
9. RF

D158

Who is the Vice President?

[IWER: ANSWER IS BIDEN]

[IWER: PROBE FOR LAST NAME]

1. LAST NAME CORRECT  
5. NOT CORRECT  
8. DK  
9. RF

D159 BRANCHPOINT: IF THIS IS A REINTERVIEW R, GO TO D178 BRANCHPOINT
Now please tell me the meanings of some words I will read to you. Any way you want to define the word is fine.

1. CONTINUE

NOTE: '1. CONTINUE' IS THE ONLY ACCEPTABLE RESPONSE.

NOTE: SURVEY Craft RANDOMLY ASSIGNS TO EACH R (AT X012) VOCABULARY LIST 1 (1ST WORD OF EACH PAIR) or LIST 2 (2ND WORD) IN QUESTIONS D161 – D169. Rs IN SAME HH ARE ASSIGNED DIFFERENT LISTS.

D161
What is the meaning of the word:

[REPAIR/CONCEAL]

[IWER: IF R DOESN’T KNOW THE ANSWER, TYPE ‘DK’. IF R REFUSES TO ANSWER, TYPE ‘RF’.]

____________________ MEANING

D163
(What is the meaning of) the word:

[FABRIC/ENORMOUS]

[IWER: IF R DOESN’T KNOW THE ANSWER, TYPE ‘DK’. IF R REFUSES TO ANSWER, TYPE ‘RF’.]

____________________ MEANING

D165
(What is the meaning of) the word:

[DOMESTIC/PERIMETER]

[IWER: IF R DOESN’T KNOW THE ANSWER, TYPE ‘DK’. IF R REFUSES TO ANSWER, TYPE ‘RF’.]

____________________ MEANING
D167
(What is the meaning of) the word:

[REMORSE/COMPASSION]

[IWER: IF R DOESN’T KNOW THE ANSWER, TYPE ‘DK’. IF R REFUSES TO ANSWER, TYPE ‘RF’.
]

MEANING

D169
(What is the meaning of) the word:

[PLAGIARIZE/AUDACIOUS]

[IWER: IF R DOESN’T KNOW THE ANSWER, TYPE ‘DK’. IF R REFUSES TO ANSWER, TYPE ‘RF’.
]

MEANING

For D161 — D169:
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D178 BRANCHPOINT: IF THIS IS A REINTERVIEW R and ALTERNATE WAVE FLAG IS NOT SET TO ASK QUESTIONS (D190>0), GO TO D194

NOTE: QUESTIONS D178 THROUGH D180 (Tag#=D169.3) ARE ALWAYS ASASKED OF NEW INTERVIEW Rs. THEY WERE NOT ASKED OF REINTERVIEW Rs IN THE 2012 WAVE and WILL NOT BE ASKED IN 2016, BUT WERE ASKED IN 2010 AND WILL BE ASKED AGAIN IN 2014 AND 2018. THEY ARE ASKED IN 2014.
Next I would like to ask you some questions which assess how people use numbers in everyday life.

If the chance of getting a disease is 10 percent, how many people out of 1,000 would be expected to get the disease?

[IWER: ENTER RESPONSE IN WHOLE NUMBERS]

NUMBER OF PEOPLE

If 5 people all have the winning numbers in the lottery and the prize is two million dollars, how much will each of them get?

[IWER: ENTER AMOUNT IN WHOLE DOLLARS]

AMOUNT

Let’s say you have $200 in a savings account. The account earns 10 percent interest per year. How much would you have in the account at the end of two years.

[IWER: ENTER AMOUNT IN WHOLE DOLLARS]

AMOUNT

BRANCHPOINT: IF R GAVE INCORRECT ANSWERS (AT D178 (D178 NOT 100) and AT D179 (D179 NOT 400,000)), CALCULATE TICS SCORE AT D170 AND GO TO D194 BRANCHPOINT
RETRIEVAL FLUENCY TEST (D194/D193-D199)

Source: Adapted from the Woodcock Johnson III Tests of Achievement: Retrieval Fluency © Riverside Publishing. Adapted by McArdle & Woodcock (2009).

Retrieval Fluency measures an aspect of long-term retrieval. This test measures fluency of retrieval from stored knowledge.

D194 BRANCHPOINT: IF R's CURRENT AGE IS LESS THAN 65 YEARS OLD (A019<65) and THIS IS A REINTERVIEW R (Z076=1), GO TO D200 BRANCHPOINT

NOTE: DON'T KNOW/DK AND REFUSE/RF ARE NOT RECORDED FOR RETRIEVAL FLUENCY TEST (D194-D199).

D194

Now I want to see how many different animals you can name.

You will have 60 seconds. When I say, `Begin`, say the animal names as fast as you can.

[IWER: GET READY TO TIME 60 SECONDS. REPEAT INSTRUCTIONS IF NECESSARY]

[IWER: PRESS [ENTER] FOR EVERY RESPONSE AS IT IS SAID BY THE R - REGARDLESS OF WHETHER YOU THINK IT IS CORRECT. KEEP A MENTAL COUNT OF INCORRECT AND REPEATED RESPONSES.


Are you ready? (PAUSE.) BEGIN.

1. CONTINUE
D193
IWER: PRESS [ENTER] FOR EVERY RESPONSE AS IT IS SAID BY THE R - REGARDLESS OF WHETHER YOU THINK IT IS CORRECT.

[IWER: KEEP A MENTAL COUNT OF INCORRECT AND REPEATED RESPONSES.]

[IWER: COUNT CATEGORIES OF ANIMALS (E.G., DOG), AS WELL AS SPECIFIC TYPES (E.G., COLLIE, TERRIER) AS CORRECT. IF R IS BILINGUAL, COUNT RESPONSE CORRECT IF GIVEN IN ANOTHER LANGUAGE.]

[IWER: IF R HAS NOT MENTIONED ANY ANIMALS FOR ABOUT 10 SECONDS, PROBE: 'ANYTHING ELSE?']

[IWER: IF NO, PRESS '7' TO END TASK.]

[IWER: INSTRUCT THE R TO STOP AS SOON AS THE TIMER REACHES 60 SECONDS. THEN PRESS '7' TO END TASK."

7. END TASK

D196

TOTAL ANIMAL ANSWERS

NOTE: THIS IS CALCULATED IN BLAISE BY COUNTING THE NUMBER OF TIMES THE IWER PRESSES ‘ENTER’ AT D194.

D197 BRANCHPOINT: IF R DID NOT RESPOND WITH ANY ANIMAL ANSWERS (D196=EMPTY), GO TO D200 BRANCHPOINT

D197
IWER: DID YOU RECORD ANY INCORRECT NAMES?

1. YES  2. PROBABLY YES  4. PROBABLY NO  5. NO

GO TO D199

D198
IWER: WHAT IS YOUR BEST ESTIMATE OF THE NUMBER OF INCORRECT NAMES YOU RECORDED?

NUMBER OF INCORRECT NAMES
D199
IWER: WHAT DID YOU USE TO TIME THIS TASK?

1. STOP WATCH  
2. COMPUTER CLOCK  
3. WRIST WATCH  

4. WALL CLOCK  
5. NOTHING  
7. OTHER  

D245
IWER: PLEASE INDICATE WHETHER ANY PROBLEMS OCCURRED IN RELATION TO ANIMAL NAMING.

[IWER: CHOOSE ALL THAT APPLY]

[IWER: R ENDING BEFORE 60 SECONDS EXPIRED IS NOT A PROBLEM AND NEED NOT BE REPORTED]

1. INTERRUPTION DURING 60 SEC RESPONSE PERIOD  
2. IWER EXCEEDED 60 SECOND RESPONSE PERIOD  

3. TECHNICAL/COMPUTER PROBLEM  
4. R DID NOT UNDERSTAND TASK  

5. OTHER (SPECIFY)  
D246 (SPECIFY)___________  

6. NO PROBLEMS OCCURRED  
8. DK  
9. RF  

NOTE: THE IWER MAY CHOOSE ANY COMBINATION OF SELECTIONS 1, 2, 3, 4, AND 5, OR CODE 6, 8 OR 9 SINGLY.
NUMBER SERIES TEST OF QUANTITATIVE REASONING (D200-D235)

Source: Adapted from the Woodcock Johnson III Tests of Achievement: Number Series © Riverside Publishing. Adapted by McArdle & Woodcock (2009).

Number Series measures quantitative reasoning. This ability involves reasoning with concepts that depend upon mathematical relationships. The task requires the Respondent to look at a series of numbers with a number missing from the series. The Respondent must determine the numerical pattern, and then provide the missing number in the series. Each participant is given up to six number series problems to solve.

For details on the individual test items, see Fisher et al., "New Measures of Fluid Intelligence in the HRS", HRS Documentation Report DR-027, at this link: [http://hrsonline.isr.umich.edu/sitedocs/userg/dr-027.pdf](http://hrsonline.isr.umich.edu/sitedocs/userg/dr-027.pdf)

D200 BRANCHPOINT: IF THIS IS NOT A SELF INTERVIEW (A009 NOT 1), GO TO D171 (D ASSIST)

IF ALTERNATE WAVE FLAG IS NOT SET TO ASK QUESTIONS (D290>0),
GO TO D247 BRANCHPOINT


D200

Next I'm going to read you several numbers and I'd like you to write them down from left to right. There will be a blank number in the series that I read to you. Draw a dash or short blank line when I say “blank.” Then look at the pattern of numbers. Based on this pattern, tell me what number goes in the blank. Sometimes the blank will be at the end of the series, and sometimes the blank will be in the beginning or in the middle.

[IWER: MAKE SURE R HAS PENCIL AND PAPER READY FOR WRITING DOWN THE NUMBERS. REPEAT INSTRUCTIONS FOR THE R IF NECESSARY. ALLOW ENOUGH TIME WHEN READING NUMBERS FOR R TO WRITE DOWN SEQUENCE.]

For example, if I said the numbers ‘1... 2... BLANK... 4’ then what number would go in the blank?

CORRECT RESPONSE: 3

[IWER: IF R DOES NOT GIVE THE CORRECT RESPONSE (3) THEN SAY: THE ANSWER WE WERE LOOKING FOR IS 3.]
Let’s try another one. I’m going to read you a series of numbers. There will be a blank number in the series that I read to you. I would like you to write down the numbers from left to right and then tell me what number goes in the blank based on the pattern of numbers.

2. . . 4. . . 6. . . BLANK

(Now please look at the number you just wrote down and tell me the number that goes in the blank.)

CORRECT RESPONSE: 8

[IF THE RESPONDENT SAYS HE OR SHE DOES NOT KNOW THE ANSWER, RECORD CTRL-D. DO NOT RECORD A “DON’T KNOW” RESPONSE AS “R DOESN’T UNDERSTAND INSTRUCTIONS.”]
I am now going to ask you six more questions like the one you just did. Sometimes the blank will be at the end of the series, and sometimes it may be at the beginning or in the middle. You may be asked a question with more than one blank in the sequence. The numbers might increase, like 2, 4, 6, or decrease, like 6, 4, 2. Some of the problems may be easy but others may be hard. Just do the best you can. It is more important to answer the item correctly than to answer quickly, so take a little time to think before answering. It is okay if you do not know the answer because some of the items are intended to be very difficult. You can go on to the next item at any time. Are you ready to begin?

[If the respondent says he or she does not know the answer, record CTRL-D. Do not record a “don’t know” response as “unable to do.”]
D202 NUMBER SERIES ITEM H1

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D203 NUMBER SERIES ITEM I1

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D216 COUNT SCORE FOR NUMBER CORRECT
(SUM OF NUMBER CORRECT {D201+D202+D203})

NUMBER OF ITEMS CORRECT

D217 COUNT SCORE FOR NUMBER REFUSED
(SUM OF NUMBER REFUSED {D201+D202+D203})

NUMBER OF ITEMS REFUSED

D204 BRANCHPOINT: IF R REFUSED ALL OF THE FIRST THREE NUMBER SERIES ITEMS (D217=3), GO TO D247 BRANCHPOINT

IF R ANSWERED NONE OF THE NUMBER SERIES ITEMS CORRECTLY (D216=0), CONTINUE ON TO D204

IF R ANSWERED ONE NUMBER SERIES QUESTION CORRECTLY (SUM OF {D201+D202+D203}=1)(D216=1), GO TO D207

IF R ANSWERED TWO NUMBER SERIES QUESTIONS CORRECTLY (D216=2), GO TO D210

IF R ANSWERED THREE NUMBER SERIES QUESTIONS CORRECTLY (D216=3), GO TO D213
D204 NUMBER SERIES ITEM A1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D205 NUMBER SERIES ITEM B1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D206 NUMBER SERIES ITEM C1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

D207 NUMBER SERIES ITEM D1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D208 NUMBER SERIES ITEM E1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D209 NUMBER SERIES ITEM F1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

D210 NUMBER SERIES ITEM J1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D211 NUMBER SERIES ITEM K1

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D212 NUMBER SERIES ITEM L1
1. CORRECT  5. NOT CORRECT  8. DK  9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

**D213 NUMBER SERIES ITEM M1**

<table>
<thead>
<tr>
<th>1. CORRECT</th>
<th>5. NOT CORRECT</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
</table>

**D214 NUMBER SERIES ITEM N1**

<table>
<thead>
<tr>
<th>1. CORRECT</th>
<th>5. NOT CORRECT</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
</table>
D215  NUMBER SERIES ITEM O1

1. CORRECT   5. NOT CORRECT   8. DK   9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

D221  NUMBER SERIES ITEM G2

1. CORRECT   5. NOT CORRECT   7. R UNABLE TO DO   8. DK   9. RF

GO TO D247 BRANCHPOINT

D222  NUMBER SERIES ITEM H2

1. CORRECT   5. NOT CORRECT   8. DK   9. RF

D223  NUMBER SERIES ITEM I2

1. CORRECT   5. NOT CORRECT   8. DK   9. RF

D216  COUNT SCORE FOR NUMBER CORRECT
(SUM OF NUMBER CORRECT {D221+D222+D223})

NUMBER OF ITEMS CORRECT

D217  COUNT SCORE FOR NUMBER REFUSED
(SUM OF NUMBER REFUSED {D221+D222+D223})

NUMBER OF ITEMS REFUSED
D224 BRANCHPOINT: IF R REFUSED ALL OF THE FIRST THREE NUMBER SERIES ITEMS (D217=3), GO TO D247 BRANCHPOINT

IF R ANSWERED NONE OF THE NUMBER SERIES ITEMS CORRECTLY (D216=0), CONTINUE ON TO D224

IF R ANSWERED ONE NUMBER SERIES QUESTION CORRECTLY (SUM OF {D221+D222+D223}=1) (D216=1), GO TO D227

IF R ANSWERED TWO NUMBER SERIES QUESTIONS CORRECTLY (D216=2), GO TO D230

IF R ANSWERED THREE NUMBER SERIES QUESTIONS CORRECTLY (D216=3), GO TO D233

D224 NUMBER SERIES ITEM A2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D225 NUMBER SERIES ITEM B2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D226 NUMBER SERIES ITEM C2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

D227 NUMBER SERIES ITEM D2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D228 NUMBER SERIES ITEM E2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF

D229 NUMBER SERIES ITEM F2

1. CORRECT  5. NOT CORRECT  8. DK  9. RF
D230 NUMBER SERIES ITEM J2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D231 NUMBER SERIES ITEM K2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D232 NUMBER SERIES ITEM L2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

GO TO D247 BRANCHPOINT (AFTER D235)

D233 NUMBER SERIES ITEM M2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D234 NUMBER SERIES ITEM N2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

D235 NUMBER SERIES ITEM O2

1. CORRECT    5. NOT CORRECT    8. DK    9. RF

*****************************************************************************
Verbal Analogies Test (D247-D284)

For details on the individual test items, see Fisher et al., "New Measures of Fluid Intelligence in the HRS", HRS Documentation Report DR-027, at this link: http://hrsonline.isr.umich.edu/sitedocs/userg/dr-027.pdf

D247 BRANCHPOINT: IF ALTERNATE WAVE FLAG IS NOT SET TO ASK QUESTIONS (D190>0), GO TO D172 BRANCHPOINT


D247

Next I’m going to read you several words and I’d like you to finish what I say by telling me the word that best completes the phrase.

For example, if I say “Mother is to Daughter as Father is to…” you would say “Son.” Mother is to Daughter as Father is to Son.

1. CONTINUE

D249

I am now going to read six more statements like the one you just heard. I want you to tell me the word that best completes the phrase. Some of the problems may be easy but others may be hard. Just do the best you can. It is more important to answer the item correctly than to answer quickly, so take a little time to think before answering. It is okay if you do not know the answer because some of the items are intended to be very difficult. You can go on to the next item at any time. Are you ready to begin?

[IWER: REPEAT INSTRUCTIONS IF NECESSARY. PRESS ‘CONTINUE’ WHEN R IS READY TO BEGIN.]

1. CONTINUE

D250 BRANCHPOINT: IF R WAS RANDOMLY SELECTED TO BE ASKED SET 2 OF VERBAL ANALOGIES QUESTIONS (X526=2), GO TO D270
D250 VERBAL ANALOGIES ITEM G1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D251 VERBAL ANALOGIES ITEM H1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D252 VERBAL ANALOGIES ITEM I1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D265

COUNT SCORE FOR NUMBER CORRECT AMONG D250, D251, D252
(SUM OF NUMBER CORRECT {D250+D251+D252})

NUMBER OF ITEMS CORRECT

D253 BRANCHPOINT: IF R ANSWERED NONE OF THE FIRST THREE VERBAL ANALOGIES ITEMS CORRECTLY (D265=0), CONTINUE ON TO D253

IF R ANSWERED ONE VERBAL ANALOGIES QUESTION CORRECTLY (SUM OF {D250+D251+D252}=1) (D265=1), GO TO D256

IF R ANSWERED TWO VERBAL ANALOGIES QUESTIONS CORRECTLY (D265=2), GO TO D259

IF R ANSWERED THREE VERBAL ANALOGIES QUESTIONS CORRECTLY (D265=3), GO TO D262

D253 VERBAL ANALOGIES ITEM A1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D254 VERBAL ANALOGIES ITEM B1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF
D255 VERBAL ANALOGIES ITEM C1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D256 VERBAL ANALOGIES ITEM D1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D257 VERBAL ANALOGIES ITEM E1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D258 VERBAL ANALOGIES ITEM F1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D259 VERBAL ANALOGIES ITEM J1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D260 VERBAL ANALOGIES ITEM K1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D261 VERBAL ANALOGIES ITEM L1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D262 VERBAL ANALOGIES ITEM M1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF
D263  VERBAL ANALOGIES ITEM N1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D264  VERBAL ANALOGIES ITEM O1

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D270  VERBAL ANALOGIES ITEM G2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D271  VERBAL ANALOGIES ITEM H2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D272  VERBAL ANALOGIES ITEM I2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D285  COUNT SCORE FOR NUMBER CORRECT AMONG D270, D271, D272
(SUM OF NUMBER CORRECT \{D270+D271+D272\})

NUMBER OF ITEMS CORRECT

D273 BRANCHPOINT: IF R ANSWERED NONE OF THE FIRST THREE VERBAL ANALOGIES ITEMS CORRECTLY (D285=0), CONTINUE ON TO D273

IF R ANSWERED ONE VERBAL ANALOGIES QUESTION CORRECTLY (SUM OF \{D270+D271+D272\}=1) (D285=1), GO TO D276

IF R ANSWERED TWO VERBAL ANALOGIES QUESTIONS CORRECTLY (D285=2), GO TO D279

IF R ANSWERED THREE VERBAL ANALOGIES QUESTIONS CORRECTLY (D285=3), GO TO D282
D273 VERBAL ANALOGIES ITEM A2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D274 VERBAL ANALOGIES ITEM B2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D275 VERBAL ANALOGIES ITEM C2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D276 VERBAL ANALOGIES ITEM D2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D277 VERBAL ANALOGIES ITEM E2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D278 VERBAL ANALOGIES ITEM F2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

GO TO D172 BRANCHPOINT (AFTER D284)

D279 VERBAL ANALOGIES ITEM J2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF

D280 VERBAL ANALOGIES ITEM K2

1. CORRECT  5. NOT CORRECT  6. INVALID  8. DK  9. RF
NOTE: D170. TICS SCORE COUNT:  
A SCORE IS TABULATED BY BLAISE BASED ON RESPONSES TO QUESTIONS D124, D129, & D151 THROUGH D158. A SCORE OF 0-10 IS GIVEN BASED ON THE NUMBER OF CORRECT ANSWERS AND ELAPSED TIME TO ANSWER. NOTE THAT NOT ALL RESPONDENTS ARE ASKED D151 THROUGH 158.  
SCORES FOR THE RETRIEVAL FLUENCY SERIES (D193-D199) AND THE NUMBER SERIES (D200-D235) ARE CALCULATED FOR EACH RESPONDENT LATER DURING POST-PROCESSING.
D172/(Tag#=D171) BRANCHPOINT: IF TICS SCORE IS (GREATER THAN OR EQUAL TO 5) (D170 ≥ 5) or R’s CURRENT AGE IS LESS THAN 65 (A019<65) or THIS IS NOT A SELF IW (A009 NOT 1), GO TO D171/(Tag#=D173) (D ASSIST)

D172 (Tag#=D171)
RESPONDENT TICS SCORE IS: TICS SCORE COUNT (D170)

[IWER: SCORE INDICATES R MAY NEED TO HAVE AN ASSISTANT FOR REMAINDER OF IW]

[IWER: IF YOU SELECT CODE ‘5’, CONTINUE UNASSISTED, PLEASE EXPLAIN ON NEXT SCREEN]

1. R WILL CONTINUE WITH AN ASSISTANT
5. R WILL CONTINUE UNASSISTED

GO TO D171/(Tag#=D173) (D ASSIST)

D173 (Tag#=D172)
IWER: PLEASE EXPLAIN WHY ASSISTANT IS NOT NEEDED.

NOTE: IWER MUST ENTER SOMETHING AT THIS SCREEN.

D171 (Tag#=D173)
D ASSIST
IWER: HOW OFTEN DID R’S FIRST NAME (per X058) RECEIVE ASSISTANCE WITH ANSWERS IN SECTION D — COGNITIVE?

1. NEVER
2. A FEW TIMES
3. MOST OR ALL OF THE TIME
4. THE SECTION WAS DONE BY A PROXY REPORTER
Part of this study is concerned with people's memory, and ability to think about things.

First, how would you rate R’s FIRST NAME’s memory at the present time? Would you say it is excellent, very good, good, fair or poor?

Part of this study is concerned with people's memory, and ability to think about things. For the next few questions, I want you to think about R's FIRST NAME as of one month before [his/her] death.

First, how would you rate R's FIRST NAME's memory at that time? Would you say it was excellent, very good, good, fair or poor?

1. EXCELLENT  2. VERY GOOD  3. GOOD  4. FAIR

5. POOR  8. DK  9. RF

Compared to [R's LAST IW MONTH, YEAR/two years ago], would you say R's FIRST NAME's memory is better now, about the same, or worse now than it was then?

1. BETTER  2. SAME  3. WORSE  DK  RF
Now we want you to remember what R's FIRST NAME was like two years ago and to compare it with what [he/she] is like now. Two years ago was in \( \text{CURRENT IW YEAR - 2} \). I will read situations where R's FIRST NAME has to use [his/her] memory or intelligence and we would like you to indicate whether this has improved, stayed the same, or gotten worse in that situation over the past two years.

Note the importance of comparing [his/her] present performance with two years ago. So if two years ago R's FIRST NAME always forgot where [he/she] had left things, and [he/she] still does, then this would be considered ‘not much change’.

Now we want you to remember what R's FIRST NAME was like [when we interviewed [him/her] in R's LAST IW MONTH, YEAR (per Z092), YEAR (per Z093)/two years ago] and to compare it with what [he/she] was like toward the end of [his/her] life, but leaving out the last month or so of [his/her] life. I will read situations where R's FIRST NAME had to use [his/her] memory or intelligence and we would like you to indicate whether this had improved, stayed the same, or gotten worse in that situation over that time period.

Note the importance of comparing [his/her] performance toward the end of [his/her] life with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago]. So if two years ago R's FIRST NAME always forgot where [he/she] had left things, and [he/she] still did, then this would be considered "not much change".

1. CONTINUE  DK  RF
Compared with two years ago, how is R's FIRST NAME at:
Remembering things about family and friends, such as occupations, birthdays, and addresses. Has this improved, not much changed, or gotten worse?

Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:
Remembering things about family and friends, such as occupations, birthdays, and addresses. Had this improved, not much changed, or gotten worse?

1. IMPROVED  2. NOT MUCH Changed  3. GOTTEN WORSE

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY  8. DK  9. RF
Compared with two years ago, how is R's FIRST NAME at:
Remembering things that have happened recently?
(Has this improved, not much changed, or gotten worse?)

Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:
Remembering things that had happened recently?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED
2. NOT MUCH CHANGED
3. GOTTEN WORSE

GO TO D512
GO TO D511

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY
8. DK
9. RF

GO TO D512

D510

Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED
2. A BIT IMPROVED
8. DK
9. RF

GO TO D512

D511

Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE
5. MUCH WORSE
8. DK
9. RF
D512
(Compared with two years ago, how is R’s FIRST NAME at:)
Recalling conversations a few days later?
(Has this improved, not much changed, or gotten worse?)

(COMPARED WITH [WHEN WE INTERVIEWED [HIM/HER] IN R’S LAST IW MONTH, YEAR/two years ago], how was R’S FIRST NAME at:)
Recalling conversations a few days later?
(Has this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE

GO TO D515  GO TO D514

4. DOES NOT APPLY; R DOESN’T DO ACTIVITY  8. DK  9. RF

GO TO D515

D513
Is it much improved or a bit improved?

Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

GO TO D515

D514
Is it much worse or a bit worse?

Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
(Compared with two years ago, how is R’s FIRST NAME at:)
Remembering [his/her] address and telephone number?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R’s LAST IW MONTH, YEAR/two years ago], how was R’s FIRST NAME at:)
Remembering [his/her] address and telephone number?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE
GO TO D518  GO TO D517

4. DOES NOT APPLY; R DOESN’T DO ACTIVITY  8. DK  9. RF
GO TO D518

D516
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF
GO TO D518

D517
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
D518
(Compared with two years ago, how is R's FIRST NAME at:)
Remembering what day and month it is?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Remembering what day and month it was?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE

GO TO D521  GO TO D520

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY  8. DK  9. RF

GO TO D521

D519
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

GO TO D521

D520
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
D521
(Compared with two years ago, how is R's FIRST NAME at:) Remembering where things are usually kept? (Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:) Remembering where things were usually kept? (Had this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE

GO TO D524

GO TO D523

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY  8. DK  9. RF

GO TO D524

D522
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

GO TO D524

D523
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
(Compared with two years ago, how is R's FIRST NAME at:

Remembering where to find things which have been put in a different place than usual?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:

Remembering where to find things which had been put in a different place than usual?
(Has this improved, not much changed, or gotten worse?)

1. IMPROVED
2. NOT MUCH CHANGED
3. GOTTEN WORSE

GO TO D527
GO TO D526

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY
8. DK
9. RF

GO TO D527

D525

Is it much improved or a bit improved?

Was it much improved or a bit improved?

1. MUCH IMPROVED
2. A BIT IMPROVED
8. DK
9. RF

GO TO D527

D526

Is it much worse or a bit worse?

Was it much worse or a bit worse?

4. A BIT WORSE
5. MUCH WORSE
8. DK
9. RF
(Compared with two years ago, how is R's FIRST NAME at:)
Knowing how to work familiar machines around the house?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Knowing how to work familiar machines around the house?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED
2. NOT MUCH CHANGED
3. GOTTEN WORSE

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY

8. DK
9. RF

GO TO D530
GO TO D529

D528

Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED
2. A BIT IMPROVED
8. DK
9. RF

GO TO D530

D529

Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE
5. MUCH WORSE
8. DK
9. RF
D530

(Compared with two years ago, how is R's FIRST NAME at:)
Learning to use a new gadget or machine around the house?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Learning to use a new gadget or machine around the house?
(Had this improved, not much changed, or gotten worse?)

<table>
<thead>
<tr>
<th>1. IMPROVED</th>
<th>2. NOT MUCH CHANGED</th>
<th>3. GOTTEN WORSE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GO TO D533</td>
<td>GO TO D532</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. DOES NOT APPLY; R DOESN'T DO ACTIVITY</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GO TO D533</td>
<td></td>
</tr>
</tbody>
</table>

D531

Is it much improved or a bit improved?
Was it much improved or a bit improved?

<table>
<thead>
<tr>
<th>1. MUCH IMPROVED</th>
<th>2. A BIT IMPROVED</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GO TO D533</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D532

Is it much worse or a bit worse?
Was it much worse or a bit worse?

<table>
<thead>
<tr>
<th>4. A BIT WORSE</th>
<th>5. MUCH WORSE</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
</table>
(Compared with two years ago, how is R's FIRST NAME at:)
Learning new things in general?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Learning new things in general?
(Has this improved, not much changed, or gotten worse?)

<table>
<thead>
<tr>
<th>1. IMPROVED</th>
<th>2. NOT MUCH CHANGED</th>
<th>3. GOTTEN WORSE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GO TO D536</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GO TO D535</td>
<td></td>
</tr>
</tbody>
</table>

4. DOES NOT APPLY; R DOESN’T DO ACTIVITY | 8. DK | 9. RF | GO TO D536

D534
Is it much improved or a bit improved?
Was it much improved or a bit improved?

<table>
<thead>
<tr>
<th>1. MUCH IMPROVED</th>
<th>2. A BIT IMPROVED</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GO TO D536</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D535
Is it much worse or a bit worse?
Was it much worse or a bit worse?

<table>
<thead>
<tr>
<th>4. A BIT WORSE</th>
<th>5. MUCH WORSE</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
</table>
(Compared with two years ago, how is R's FIRST NAME at:)
Following a story in a book or on TV?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Following a story in a book or on TV?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED
2. NOT MUCH CHANGED
3. GOTTEN WORSE

GO TO D539
GO TO D538

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY
8. DK
9. RF

GO TO D539

D537
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED
2. A BIT IMPROVED
8. DK
9. RF

GO TO D539

D538
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE
5. MUCH WORSE
8. DK
9. RF
(Compared with two years ago, how is R's FIRST NAME at:)
Making decisions on everyday matters?
(Has this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE

GO TO D542  GO TO D541

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY

8. DK  9. RF

GO TO D542

Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

GO TO D542

Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
D542
(Compared with two years ago, how is R's FIRST NAME at::)
Handling money for shopping?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R’s LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at::)
Handling money for shopping?
(Has this improved, not much changed, or gotten worse?)

1. IMPROVED
2. NOT MUCH CHANGED
3. GOTTEN WORSE

GO TO D545
GO TO D544

4. DOES NOT APPLY; R DOESN’T DO ACTIVITY
8. DK
9. RF

GO TO D545

D543
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED
2. A BIT IMPROVED
8. DK
9. RF

GO TO D545

D544
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE
5. MUCH WORSE
8. DK
9. RF
(Compared with two years ago, how is R's FIRST NAME at:)
Handling financial matters, that is, [his/her] pension or dealing with the bank?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R’s LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Handling financial matters, for example, a pension or dealing with the bank?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED  2. NOT MUCH CHANGED  3. GOTTEN WORSE

GO TO D548

GO TO D547

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY  8. DK  9. RF

GO TO D548

D546
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED  2. A BIT IMPROVED  8. DK  9. RF

GO TO D548

D547
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE  5. MUCH WORSE  8. DK  9. RF
(Compared with two years ago, how is R's FIRST NAME at:)
Handling other everyday arithmetic problems, such as, knowing how much food to buy, knowing how long between visits from family or friends?  
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R’s LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Handling other everyday arithmetic problems, such as, knowing how much food to buy, knowing how long between visits from family or friends?  
(Had this improved, not much changed, or gotten worse?)

<table>
<thead>
<tr>
<th>1. IMPROVED</th>
<th>2. NOT MUCH CHANGED</th>
<th>3. GOTTEN WORSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>[GO TO D551]</td>
<td>[GO TO D550]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. DOES NOT APPLY; R DOESN’T DO ACTIVITY</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>[GO TO D551]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D549

Is it much improved or a bit improved?

Was it much improved or a bit improved?

<table>
<thead>
<tr>
<th>1. MUCH IMPROVED</th>
<th>2. A BIT IMPROVED</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>[GO TO D551]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D550

Is it much worse or a bit worse?

Was it much worse or a bit worse?

<table>
<thead>
<tr>
<th>4. A BIT WORSE</th>
<th>5. MUCH WORSE</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(Compared with two years ago, how is R's FIRST NAME at:)
Using [his/her] intelligence to understand what's going on and to reason things through?
(Has this improved, not much changed, or gotten worse?)

(Compared with [when we interviewed [him/her] in R's LAST IW MONTH, YEAR/two years ago], how was R's FIRST NAME at:)
Using [his/her] intelligence to understand what was going on and to reason things through?
(Had this improved, not much changed, or gotten worse?)

1. IMPROVED 2. NOT MUCH CHANGED 3. GOTTEN WORSE

GO TO D554  GO TO D553

4. DOES NOT APPLY; R DOESN'T DO ACTIVITY 8. DK 9. RF

GO TO D554

D552
Is it much improved or a bit improved?
Was it much improved or a bit improved?

1. MUCH IMPROVED 2. A BIT IMPROVED 8. DK 9. RF

GO TO D554

D553
Is it much worse or a bit worse?
Was it much worse or a bit worse?

4. A BIT WORSE 5. MUCH WORSE 8. DK 9. RF
<table>
<thead>
<tr>
<th>D554</th>
<th>1. YES</th>
<th>5. NO</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Now, thinking about some current behaviors, does [he/she] ever get lost in a familiar environment?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did [he/she] ever get lost in a familiar environment?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D555</th>
<th>1. YES</th>
<th>5. NO</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does [he/she] ever wander off and not return by [himself/herself]?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did [he/she] ever wander off and not return by [himself/herself]?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D556</th>
<th>1. YES</th>
<th>5. NO</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can [he/she] be left alone for an hour or so?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[Since R's LAST IW MONTH, YEAR/In the last two years] could [he/she] be left alone for an hour or so?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D557</th>
<th>1. YES</th>
<th>5. NO</th>
<th>8. DK</th>
<th>9. RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does [he/she] ever see or hear things that are not really there?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did R's FIRST NAME ever see or hear things that were not really there?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>