



Georgia Memory Net
Neuropsychological Battery
Preferred Order of Administration

1. MoCA
2. Rey Auditory Verbal Learning Test (RAVLT) (pg.1)
3. Rey-O (copy/immediate recall)
4. Number Span Forward and Backwards
5. Judgement of Line Orientation (JOLO)
6. Trail Making Test Part A and B (not administered remotely)
7. PHQ-8
8. GAD-7
9. RAVLT Delayed Recall and Recognition
10. Rey-O Delayed Recall and Recognition
10. Animal Fluency
12. Letter Fluency (letters F & L)
13. Multilingual Naming Test (MINT)

VISUOSPATIAL / EXECUTIV

Copy cube

Draw CLOCK (Ten past eleven)
(3 points)

[]
[]
[]
[]
[]

Contour
Numbers
Hands

__/5

NAMING

[]

[]

[]

__/3

MEMORY Read list of words, subject must repeat them. Do 2 trials. Do a recall after 5 minutes.

	FACE	VELVET	CHURCH	DAISY	RED
1st trial					
2nd trial					

No points

ATTENTION digit/ sec.). Subject has to repeat them in the forward order [] [2 1 8 5 4]
 Subject has to repeat them in the backward order [] [7 4 2]

__/2

Read list of letters. The subject must tap with his hand at each letter. No points if 2 errors

[] F B A C M N A A J K L B A F A K D E A A A J A M O F A A B

__/1

Serial 7 subtraction starting at 100 [] 93 [] 86 [] 79 [] 72 [] 65

4 or 5 correct subtractions: 3 pts, 2 or 3 correct: 2 pts, 1 correct: 1 pt, 0 correct: 0 pt

__/3

LANGUAGE know that John is the one to help today. []
 The cat always hid under the couch when dogs were in the room. []

__/2

Fluency / Name maximum number of words in one minute that begin with the letter F [] _____ (N ≥ 11 words)

__/1

ABSTRACTION between e.g. banana - orange = fruit [] train - bicycle [] watch - ruler

__/2

DELAYED RECALL

	Has to recall words WITH NO CUE	FACE	VELVET	CHURCH	DAISY	RED	Points for UNCUED recall only
		[]	[]	[]	[]	[]	
Optional	Category cue						
	Multiple choice cue						

__/5

ORIENTATION [] Date [] Month [] Year [] Day [] Place [] City

__/6

Rey Auditory Verbal Learning Test

Name: _____ MRN: _____ Date: _____

List A: I am going to read a list of words. Listen carefully. When I stop, I want you to say back as many words as you can remember. It doesn't matter what order you say them back to me in. Just try to remember as many words as you can.

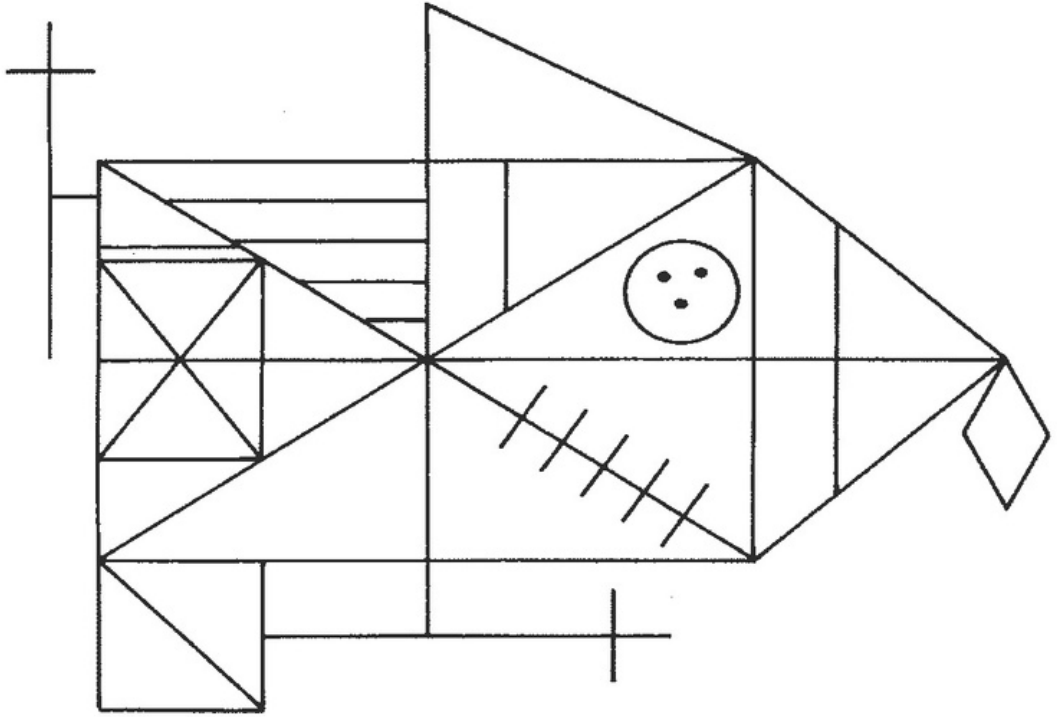
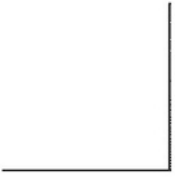
A2: Now I'm going to read the same list again. When I stop, I want you to say back as many words as you can remember. It doesn't matter what order you say them back to me in. Just try to remember as many words as you can, whether or not you said them to me before.

List B: Now I'm going to read you a second list of words. This time, again, I want you to say back to me as many words of this second list as you can remember. Again, the order in which you say the words does not matter. Just try to remember as many as you can.

A6: Now tell me all the words that you can from the first list (do not re-read List A for Recall Trial A6)

A7: A short while ago I read a list of words to you several times, and you were trying to learn these words. Tell me the words from this list again.

List A	A1	A2	A3	A4	A5	List B	B1	A6	A7	List A
drum						desk				drum
curtain						ranger				curtain
bell						bird				bell
coffee						shoe				coffee
school						stove				school
parent						mountain				parent
moon						glasses				moon
garden						towel				garden
hat						cloud				hat
farmer						boat				farmer
nose						lamb				nose
turkey						gun				turkey
color						pencil				color
house						church				house
river						fish				river



Rey-0 Immediate

Subject ID _____ Date ____/____/____ Examinee's initials _____

Number Span Test: Forward

SAY: "I am going to ask you to repeat some numbers for me. Wait until I finish saying the numbers and then repeat them in the same order. For example, if I say 1-8-7, you would say 1-8-7. If I say 2-9-8, what would you say?" If the subject gives the wrong answer, say, "Actually, you would say 2-9-8."

SAY: "Repeat only the numbers I say each time." Then start with the test items. Before each item, say, "Ready?"

Stop testing after two consecutive failures of the same span length.

Span length	Response	Response code incorrect = 0 correct = 1
3	1-8-4	___
	2-7-9	___
4	4-1-6-2	___
	8-1-9-5	___
5	6-4-9-2-8	___
	7-3-8-6-1	___
6	3-9-2-4-7-5	___
	6-2-8-3-1-9	___
7	9-6-4-7-1-5-3	___
	7-4-9-2-6-8-1	___
8	4-7-2-5-8-1-3-9	___
	2-9-5-7-3-6-1-8	___
9	6-8-4-1-9-3-5-2-7	___
	1-3-9-2-7-5-8-6-4	___
Total correct:		___
Length of longest correct series:		___

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Subject ID _____

Date ____ / ____ / _____

Examiner's initials _____

Number Span Test: Backward

SAY: "I am now going to ask you to repeat some numbers for me but to reverse them from the way I say them. Wait until I finish saying the numbers and then repeat them in reverse order, or backward. For example, if I say 3-7-4, you would say 4-7-3. If I say 7-3-6, what would you say?" If the subject gives the wrong answer, say, "Actually, you would say 6-3-7."

SAY: "Repeat only the numbers I say each time, backward, in reverse order." Then start with the test items. Before each item, say, "Ready?"

Stop testing after two consecutive failures of the same span length.

Span length	Response	Response code <i>incorrect = 0</i> <i>correct = 1</i>
2	2-5	_____
	4-7	_____
3	2-9-6	_____
	3-7-4	_____
4	7-1-8-6	_____
	5-1-6-3	_____
5	5-2-4-9-1	_____
	9-1-7-3-6	_____
6	6-8-5-7-9-2	_____
	8-1-6-3-5-9	_____
7	1-5-2-9-7-3-8	_____
	7-3-1-6-8-5-2	_____
8	3-6-4-9-5-2-7-1	_____
	6-3-5-7-1-8-2-9	_____
Total correct:		_____
Length of longest correct series:		_____

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Benton Judgment Of Line Orientation – Form H

Name _____ No. _____ Date ____/____/____
Age ____ Gender ____ Education _____ Handedness ____ Examiner _____

Instructions: Record each response choice. Circle all errors.

PRACTICE ITEMS

A _____ 1-6 B _____ 4-8 C _____ 4-10 D _____ 7-8 E _____ 2-4
A' ____1 ____6 B' ____4 ____8 C' ____4 ____10 D' ____7 ____8 E' ____2 ____4

TEST ITEMS

- | | | | | | |
|-----------|------|----|-----------|-------|----|
| 1. _____ | 5-10 | HH | 16. _____ | 10-11 | MH |
| 2. _____ | 5-6 | LL | 17. _____ | 2-5 | HL |
| 3. _____ | 6-7 | LH | 18. _____ | 1-4 | MM |
| 4. _____ | 1-2 | LL | 19. _____ | 1-9 | LL |
| 5. _____ | 2-11 | MM | 20. _____ | 2-9 | LL |
| 6. _____ | 1-7 | HH | 21. _____ | 9-11 | HH |
| 7. _____ | 1-10 | HH | 22. _____ | 6-10 | LL |
| 8. _____ | 1-7 | MM | 23. _____ | 3-11 | LL |
| 9. _____ | 7-9 | MM | 24. _____ | 8-9 | LL |
| 10. _____ | 1-3 | MM | 25. _____ | 3-8 | HH |
| 11. _____ | 5-11 | MM | 26. _____ | 7-10 | LL |
| 12. _____ | 4-5 | HH | 27. _____ | 3-4 | LM |
| 13. _____ | 7-8 | MM | 28. _____ | 3-10 | HL |
| 14. _____ | 2-6 | HH | 29. _____ | 5-8 | HM |
| 15. _____ | 3-5 | HH | 30. _____ | 8-11 | HH |

Correct

IMPRESSION: _____

OBSERVATIONS: _____

LESION SUMMARY: _____

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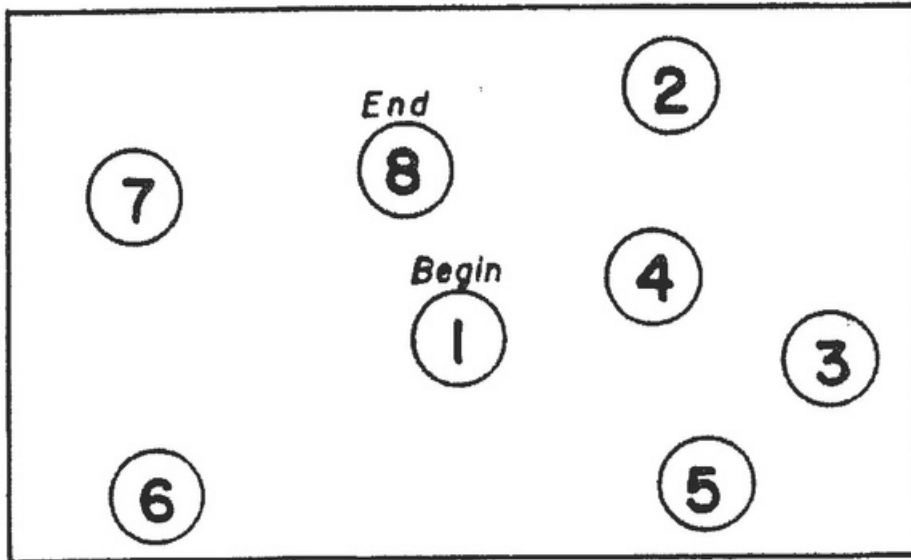
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TRAIL MAKING

Part A

SAMPLE



15

17

21

20

19

16

18

4

22

5

13

6

Begin

24

7

1

14

2

8

10

3

9

End

11

25

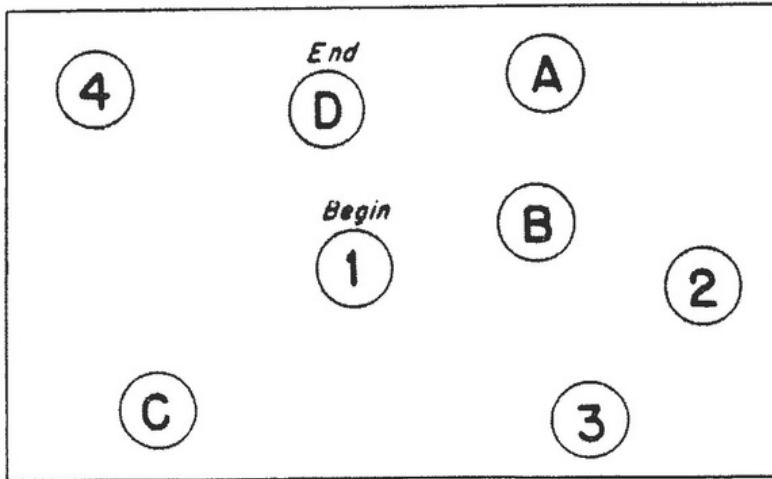
12

23

TRAIL MAKING

Part B

SAMPLE



End
13

10

8

9

I

D

B

4

3

7

Begin

1

5

H

C

12

G

A

J

2

6

L

E

F

K

11

Personal Health Questionnaire Depression Scale (PHQ-8)

Over the **last 2 weeks**, how often have you been bothered by any of the following problems?
(circle **one** number on each line)

How often during the past 2 weeks were you bothered by...	Not at all	Several days	More than half the days	Nearly every day
1. Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed, or hopeless.....	0	1	2	3
3. Trouble falling or staying asleep, or sleeping too much.....	0	1	2	3
4. Feeling tired or having little energy.....	0	1	2	3
5. Poor appetite or overeating.....	0	1	2	3
6. Feeling bad about yourself, or that you are a failure, or have let yourself or your family down	0	1	2	3
7. Trouble concentrating on things, such as reading the newspaper or watching television.....	0	1	2	3
8. Moving or speaking so slowly that other people could have noticed. Or the opposite – being so fidgety or restless that you have been moving around a lot more than usual	0	1	2	3

Scoring

If two consecutive numbers are circled, score the higher (more distress) number. If the numbers are not consecutive, do not score the item. Score is the sum of the 8 items. If more than 1 item missing, set the value of the scale to missing. A score of 10 or greater is considered major depression, 20 or more is severe major depression.

Generalized Anxiety Disorder 7-item (GAD-7) scale

Over the last 2 weeks, how often have you been bothered by the following problems?	Not at all sure	Several days	Over half the days	Nearly every day
1. Feeling nervous, anxious, or on edge	0	1	2	3
2. Not being able to stop or control worrying	0	1	2	3
3. Worrying too much about different things	0	1	2	3
4. Trouble relaxing	0	1	2	3
5. Being so restless that it's hard to sit still	0	1	2	3
6. Becoming easily annoyed or irritable	0	1	2	3
7. Feeling afraid as if something awful might happen	0	1	2	3
<i>Add the score for each column</i>	+	+	+	
Total Score (<i>add your column scores</i>) =				

If you checked off any problems, how difficult have these made it for you to do your work, take care of things at home, or get along with other people?

Not difficult at all _____

Somewhat difficult _____

Very difficult _____

Extremely difficult _____

Source: Spitzer RL, Kroenke K, Williams JBW, Lowe B. A brief measure for assessing generalized anxiety disorder. *Arch Intern Med.* 2006;166:1092-1097.

Rey Auditory Verbal Learning Test Recognition

Name: _____ MRN: _____ Date: _____

Please make a mark next to each word that you recall from the previous word list.

_____ teacher

_____ coffee

_____ river

_____ road

_____ bridge

_____ hat

_____ farmer

_____ turkey

_____ pen

_____ minute

_____ forehead

_____ nose

_____ kerchief

_____ school

_____ house

_____ bell

_____ moon

_____ face

_____ color

_____ garden

_____ beet

_____ classroom

_____ curtain

_____ parent

_____ floor

_____ children

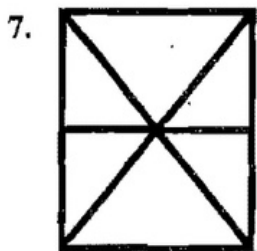
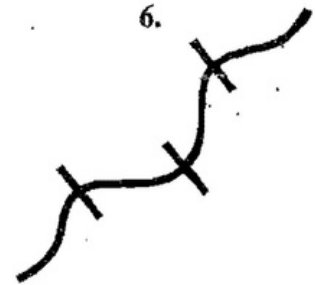
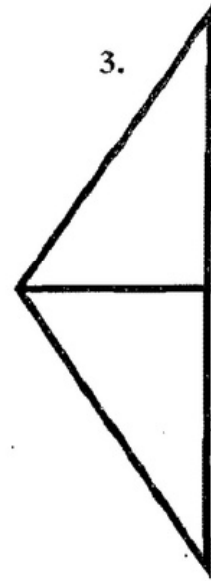
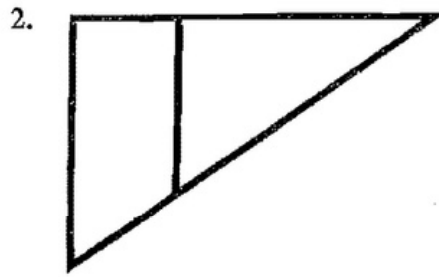
_____ soldier

_____ broomstick

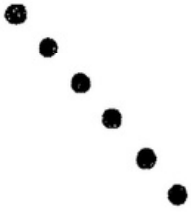
_____ drum

_____ gun

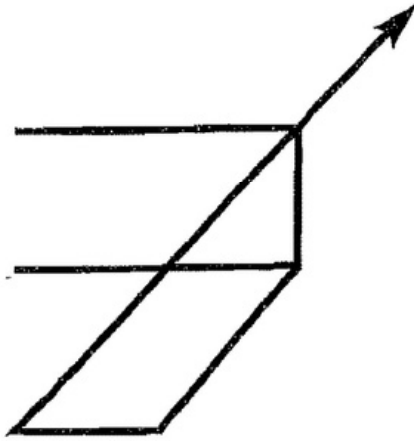
Rey-0 Delayed Recall



10.



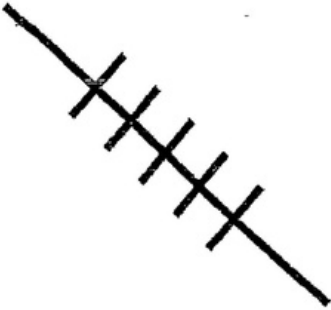
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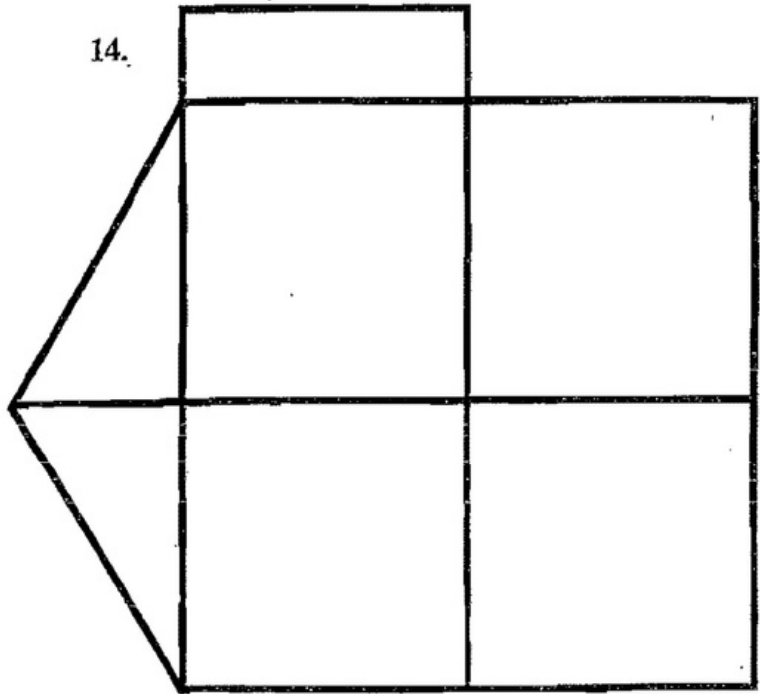
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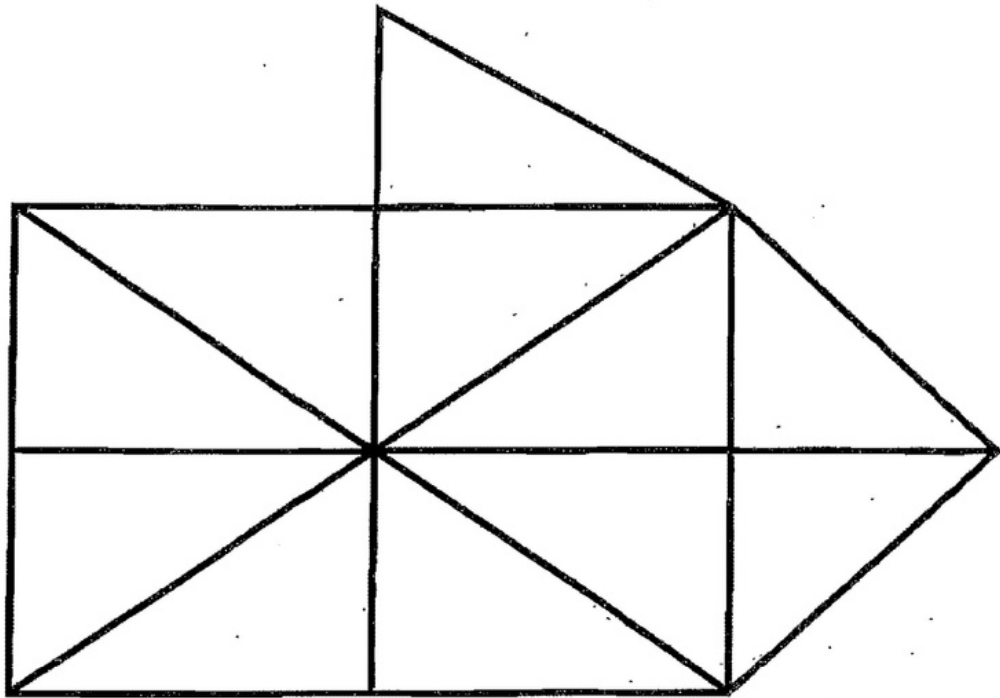
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14.



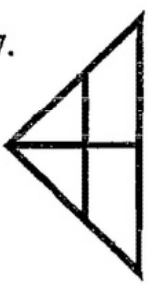
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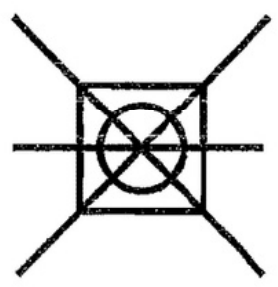
16.



17.



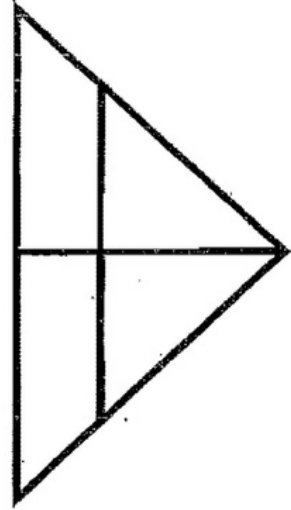
18.



19.



20.



21.



22.



23.



24.



SEMANTIC FLUENCY

Name: _____ MRN: _____ Date: _____

Animals

Instructions: "I am going to tell you the names of some things you can find in the kitchen: spoon, knives, forks, plates, faucet. Can you think of other things in the kitchen?"

Allow the examinee to name other things, and correct if he or she produces incorrect responses, explaining the task once again. Then say: *Now, tell me the names of as many animals as you can. Name them as quickly as possible.*

Allow one minute. If the examinee discontinues before the end of the period, encourage him or her to produce more names. If there is a pause of 15 or more seconds, repeat the instructions and give the starting word "dog." Start timing immediately after instructions have been given, but allow extra time in the period if instructions are repeated.

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 11. _____ | 21. _____ |
| 2. _____ | 12. _____ | 22. _____ |
| 3. _____ | 13. _____ | 23. _____ |
| 4. _____ | 14. _____ | 24. _____ |
| 5. _____ | 15. _____ | 25. _____ |
| 6. _____ | 16. _____ | 26. _____ |
| 7. _____ | 17. _____ | 27. _____ |
| 8. _____ | 18. _____ | 28. _____ |
| 9. _____ | 19. _____ | 29. _____ |
| 10. _____ | 20. _____ | 30. _____ |

Total Correct: _____

Verbal Fluency: Phonemic Test

Materials

1-minute timer

SAY: "I'm going to say a letter of the alphabet. When I ask you to start, tell me as many words as you can that begin with that letter. You will have 1 minute before I tell you to stop. None of the words can be numbers, or names of people, or places.

"For example, if I gave you the letter B, you could say brown, bottle, or bake, but you wouldn't say Barbara, Boston, or billion. Also, please try not to give me the same word with different endings. So if you said bake, you wouldn't also say baked or bakes. And if you said big, you wouldn't also say bigger and biggest.

"Let's begin. Tell me all the words you can, as quickly as you can, that begin with the letter F. Ready? Begin."

Administration

Start timer after completing instructions. Write actual responses as legibly as possible. Stop the procedure at 60 seconds.

Prompts

1. If the participant pauses for 15 seconds:
 - "Keep going."
 - "What other words beginning with F can you think of?"
2. If the participant gives three consecutive words that do not start with the designated letter (provide this prompt only once during this condition):
 - "We are now using the letter F."

Record **F** responses:

1.	11.	21.	31.
2.	12.	22.	32.
3.	13.	23.	33.
4.	14.	24.	34.
5.	15.	25.	35.
6.	16.	26.	36.
7.	17.	27.	37.
8.	18.	28.	38.
9.	19.	29.	39.
10.	20.	30.	40.

SCORING Number of correct **F**-words generated in 1 minute (0–40) _____

 Number of **F**-words repeated in 1 minute (0–15) _____

 Number of **non-F**-words and rule violation errors in 1 minute (0–15) _____

SAY: "Now I want you to do the same for another letter. The next letter is L. Ready? Begin."

Start timer after completing instructions. Write actual responses as legibly as possible. Stop the procedure at 60 seconds.

Prompts

1. If the participant pauses for 15 seconds:
 - "Keep going."
 - "What other words beginning with L can you think of?"
2. If the participant gives three consecutive words that do not start with the designated letter (provide this prompt only once during this condition):
 - "We are now using the letter L."

Record **L** responses:

1.	11.	21.	31.
2.	12.	22.	32.
3.	13.	23.	33.
4.	14.	24.	34.
5.	15.	25.	35.
6.	16.	26.	36.
7.	17.	27.	37.
8.	18.	28.	38.
9.	19.	29.	39.
10.	20.	30.	40.

SCORING Number of correct **L-words** generated in 1 minute (0–40) _____

 Number of **L-words** repeated in 1 minute (0–15) _____

 Number of **non-L-words** and rule violation errors in 1 minute (0–15) _____

 TOTAL number of correct **F-words** and **L-words** (0–80) _____

 TOTAL number of **F-word** and **L-word** repetition errors (0–30) _____

 TOTAL number of **non-F/L words** and rule violation errors (0–30) _____

MINT (Multilingual Naming Test)

INSTRUCTIONS AND CUEING

SAY: "I am going to show you some pictures of objects, one at a time. Please tell me the name of each object, that is, tell me what it is called. If you cannot think of the name try to make your best guess. If you don't know what the object is, I will try to help you. Do you have any questions?"

Stop testing after six consecutive failures.

Item #	English	Semantic cue	Spontaneous Response(s)	Uncued	Semantic cue	Phonemic cue
				correct	correct	correct
1	<u>B</u> utterfly	an insect				
2	<u>G</u> love	an article of clothing				
3	<u>L</u> ightbulb	used to see better and is turned on electrically				
4	<u>W</u> atch	used to tell the time				
5	<u>C</u> andle	is used in the dark to make light				
6	<u>C</u> lown	found in a circus				
7	<u>K</u> ite	a toy that uses the wind to make it fly				
8	<u>R</u> ainbow	it's colorful and is found in the sky after it rains				
9	<u>W</u> itch	a woman with magical powers				
10	<u>S</u> eesaw	found on a playground				
11	<u>F</u> lashlight	used to see better and is battery-operated				
12	<u>P</u> eacock	a bird				
13	<u>S</u> nail	an animal				
14	<u>W</u> hale	an ocean animal				
15	<u>C</u> age	an enclosure for animals				
16	<u>N</u> est	it's where birds lay their eggs				

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Item #	English	Semantic cue	Spontaneous Response(s)	Uncued	Semantic cue		Phonemic cue	
				correct	correct		correct	
17	<u>P</u> lug	found on electronic devices						
18	<u>W</u> ig	it's worn on the head						
19	<u>S</u> crew	it's like a nail but it grooves into wood or a wall						
20	<u>S</u> carf	clothing worn on the neck						
21	<u>W</u> ell	used to obtain water						
22	<u>D</u> ustpan	used to remove dust and trash						
23	<u>P</u> arachute	used to jump from airplane						
24	<u>B</u> lind	used to block out light						
25	<u>H</u> inge	part of a door						
26	<u>F</u> unnel	used for pouring liquid from one container to another						
27	<u>G</u> auge	used to measure air pressure						
28	<u>P</u> orthole	found on a ship						
29	<u>A</u> nvil	used for shaping						
30	<u>M</u> ortar	used to grind different substances						
31	<u>P</u> estle	used to grind different substances						
32	<u>A</u> xle	a supporting shaft on which wheels revolve						

SCORING:

(1.0 point for each correct answer under Uncued or Semantic columns, 0.0 points for correct answer under Phonemic column)

- a. Total correct without a cue ("Uncued" column): _____
- b. Total correct with a semantic cue given ("Semantic" column): _____
- c. Total correct (sum of a + b, maximum of 32): _____