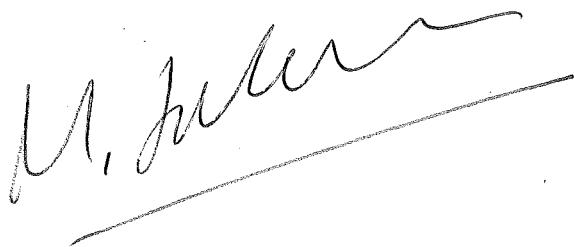


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FACULTAD DE MEDICINA
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EL DETERIORO COGNITIVO EN LOS
ENFERMOS ALCOHOLICOS



Trabajo presentado para la obtención del grado de doctor

MANEL SALAMERO BARO



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ANEXO I:
PROTOCOLO DE LA EXPLORACION NEUROPSICOLOGICA

EXPLORACION NEUROPSICOLOGICA

Apellidos

Nombre Edad Sexo

Nº de historia Nº identificación

ORIENTACION TEMPORAL (Benton y cols.)

	Respuesta	Diferencia	
Día semana	x 1 =	(Máximo 3)
Día del mes	x 1 =	(Máximo 15)
Mes	x 5 =	(Máximo 55)
Año	x 10 =	(Máximo 60)
Hora	x 1 =	(Máximo 5)
			Total

MEMORIA LOGICA INMEDIATA

Ana Pérez | de la provincia | de Málaga | que estaba empleada | como mujer de limpieza | en una casa comercial | denunció | en la comisaría | de la estación | que la habían atracado | en la Calle Mayor | la noche antes | y le habían quitado | quince mil pesetas. | Ella tenía cuatro | niños pequeños | debía el alquiler | y hacía dos días | que no habían comido. | Los policías | conmovidos por la historia de la mujer | hicieron una recolecta | para ella. |

Puntos

El trasatlántico | americano | San Francisco | chocó con una mina | cerca de La Habana | el lunes | por la tarde. | A pesar de la densa niebla, | de la tormenta | y de la oscuridad | los sesenta pasajeros | incluidas dieciocho mujeres | fueron salvados todos | aunque las lanchas | se zarandeaban | en el agitado mar | como si fueran corchos. | Todos llegaron a buen puerto | al día siguiente | a bordo de un vapor | británico. |

Puntos

Total = (A+B)/2 Total

MEMORIA LOGICA MEDIO PLAZO (30 minutos)

Ana Pérez | de la provincia | de Málaga | que estaba empleada | como mujer de limpieza | en una casa comercial | denunció | en la comisaría | de la estación | que la habían atracado | en la Calle Mayor | la noche antes | y le habían quitado | quince mil pesetas. | Ella tenía cuatro | niños pequeños | debía el alquiler | y hacía dos días | que no habían comido. | Los policías | conmovidos por la historia de la mujer | hicieron una recolecta | para ella. |

Puntos

El trasatlántico | americano | San Francisco | chocó con una mina | cerca de La Habana | el lunes | por la tarde. | A pesar de la densa niebla | de la tormenta | y de la oscuridad | los sesenta pasajeros | incluidas dieciocho mujeres | fueron salvados todos | aunque las lanchas | se zarandeaban | en el agitado mar | como si fueran corchos. | Todos llegaron a buen puerto | al día siguiente | a bordo de un vapor | británico. |

Puntos

Total = (A+B)/2 Total

MEMORIA VISUAL INMEDIATA

A B C1 C2

Total

MEMORIA VISUAL MEDIO PLAZO

A B C1 C2

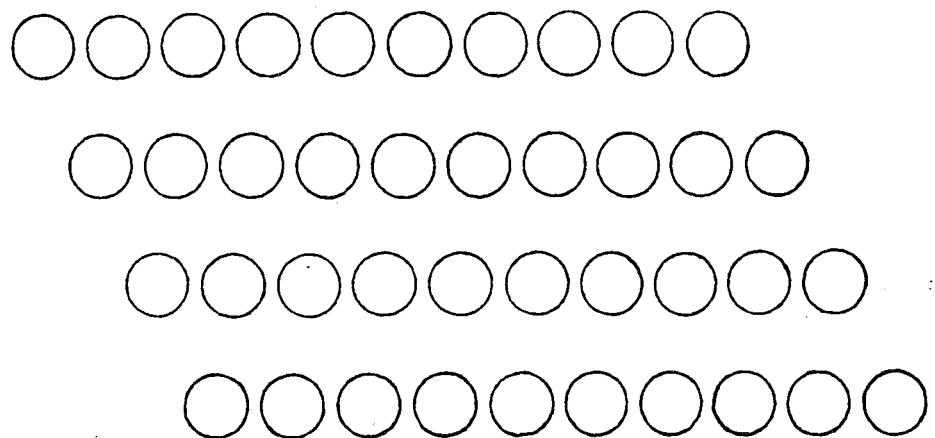
Total

	Puntuación (2,160)	VOCABULARIO
1. Cama		
2. Manzana		
3. Peseta		
4. Desayuno		
5. Invierno		
6. Enorme		
7. Barco		
8. Ocultar		
9. Apresurarse		
10. Calamidad		
11. Monumento		
12. Compasión		
13. Remordimiento		
14. Reparar		
15. Consumir		
16. Terminar		
17. Santuario		
18. Organizar		
19. Agobiar		
20. Reflexionar		
21. Sentencia		
22. Inminente		
23. Caverna		
24. Reunir		
25. Empezar		
26. Borde		
27. Designar		
28. Obstruir		
29. Perímetro		
30. Insolente		

	Puntuación (2, 1 ó 0)	
31. Peculiar		
32. Plagiar		
33. Seto		
34. Tangible		
35. Aséptico		
36. Empalar		
37. Diatríba		
38. Amanuense		
39. Ominoso		
40. Trasunto		

TEST FORMA-COLOR DE WEIGL		
<u>1^a Clasificación</u>		
¿Logra realizarla?		
Tiempo en segundos		
Explicación:		
.....		
Esquema de la clasificación realizada		
TEST FORMA-COLOR DE WEIGL		
<u>2^a Clasificación</u>		
¿Logra realizarla?		
Tiempo en segundos		
Explicación:		
.....		
Esquema de la clasificación realizada		
Después de la demostración, ¿es capaz de repetir las dos clasificaciones?		

C U B O S		
	Tiempo	PUNT.
1. 60"	1 2	0 2 4
2. 60"	1 2	0 2 4
3. 60"		0 4
4. 60"		0 4
5. 60"		0 4
6. 60"		0 4
7. 120"		81-80 1-30 0 4 5 6
8. 120"		46-70 1-45 0 4 5 6
9. 120"		61-80 1-60 0 4 5 6
10. 120"		61-80 1-60 0 4 5 6



?Cuál es la mano dominante?

**TEST DEL MARCADO
MANO DOMINANTE**

CLAVE DE NUMEROS

NUMEROS	1	2	3	4	5	6	7	8	9	PUNTUACION
CLAVES	-	I	C	L	U	O	A	X	=	<input type="text"/>

EJEMPLOS

2	1	3	7	2	4	8	1	5	4	2	1	3	2	1	4	2	3	5	2	3	1	4	6	3

1	5	4	2	7	6	3	5	7	2	8	5	4	6	3	7	2	8	1	9	5	8	4	7	3

6	2	5	1	9	2	8	3	7	4	6	5	9	4	8	3	7	2	6	1	5	4	6	3	7

9	2	8	1	7	9	4	6	8	5	9	7	1	8	5	2	9	4	8	6	3	7	9	8	6

MARCADO

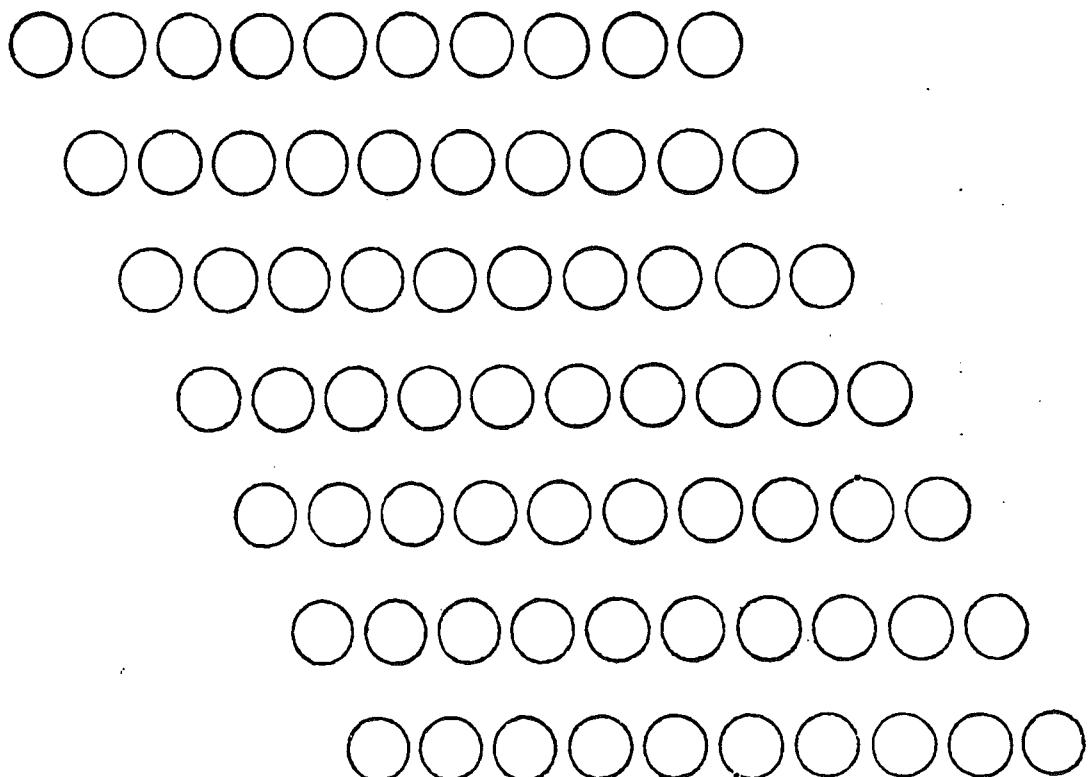


Puntuación en el subtest

MANO NO DOMINANTE



MARCADO



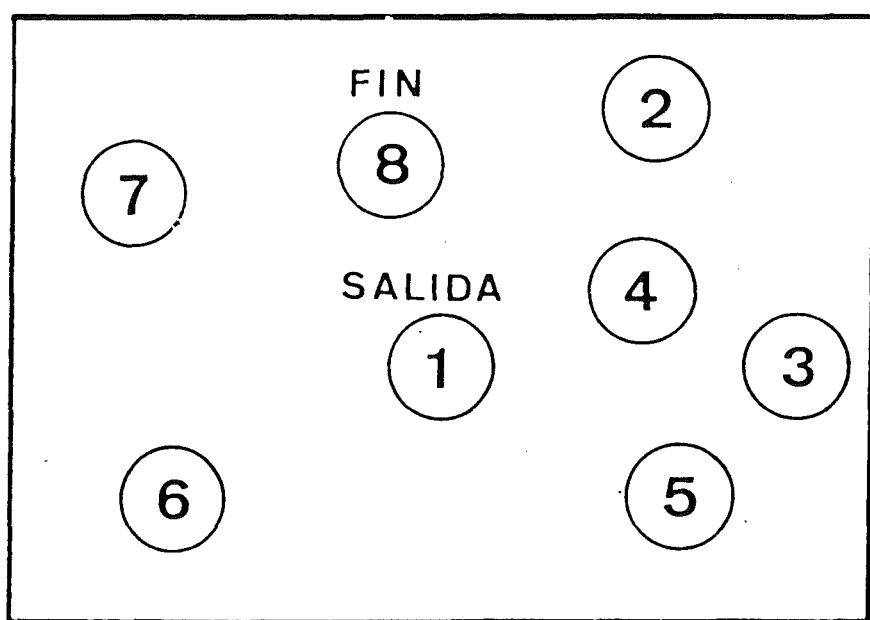
Puntuación en el subtest.

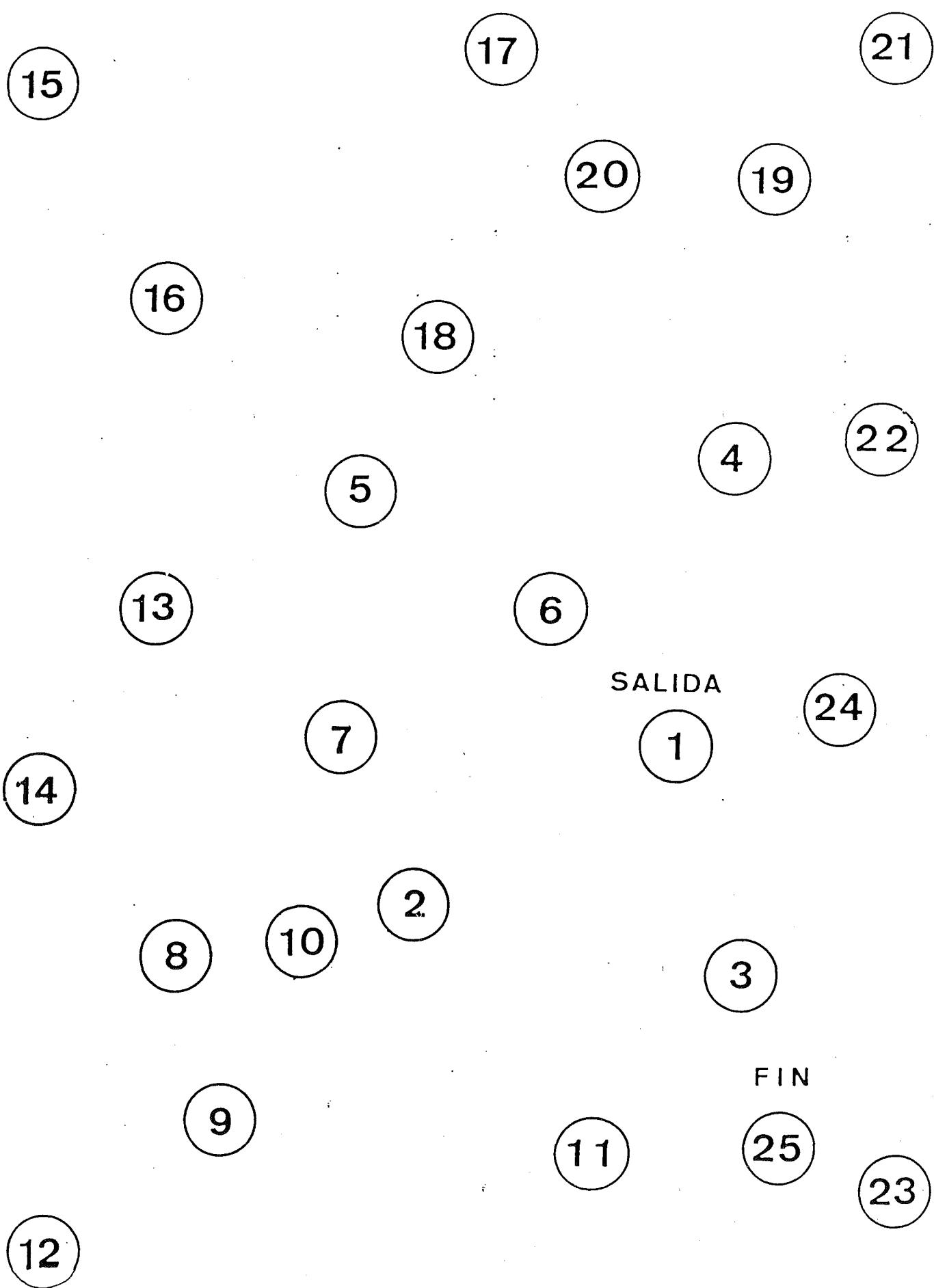
SEMEJANZAS	Puntuación (2, 1 ó 0)
1. Hacha - Sierra	
2. Chaqueta - Pantalón	
3. Naranja - Plátano	
4. Perro - León	
5. Huevo - Semilla	
6. Poema - Estatua	
7. Norte - Oeste	
8. Ojo - Oído	
9. Premio - Castigo	
10. Mesa - Silla	
11. Aire - Agua	
12. Madera - Alcohol	
13. Mosca - Árbol	

TEST DEL TRAZO

PARTE A

EJEMPLO

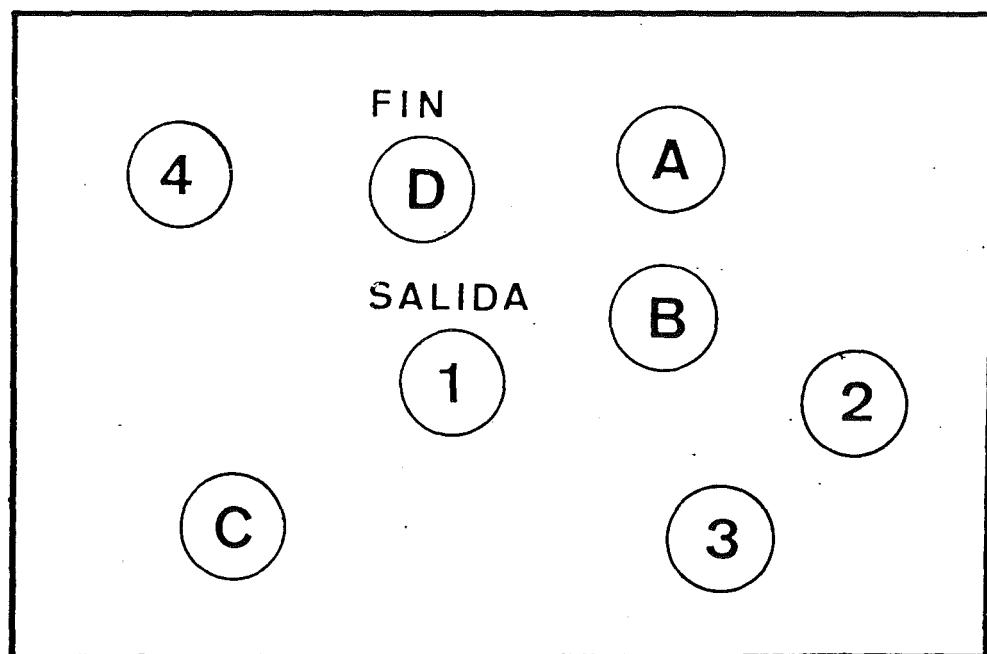


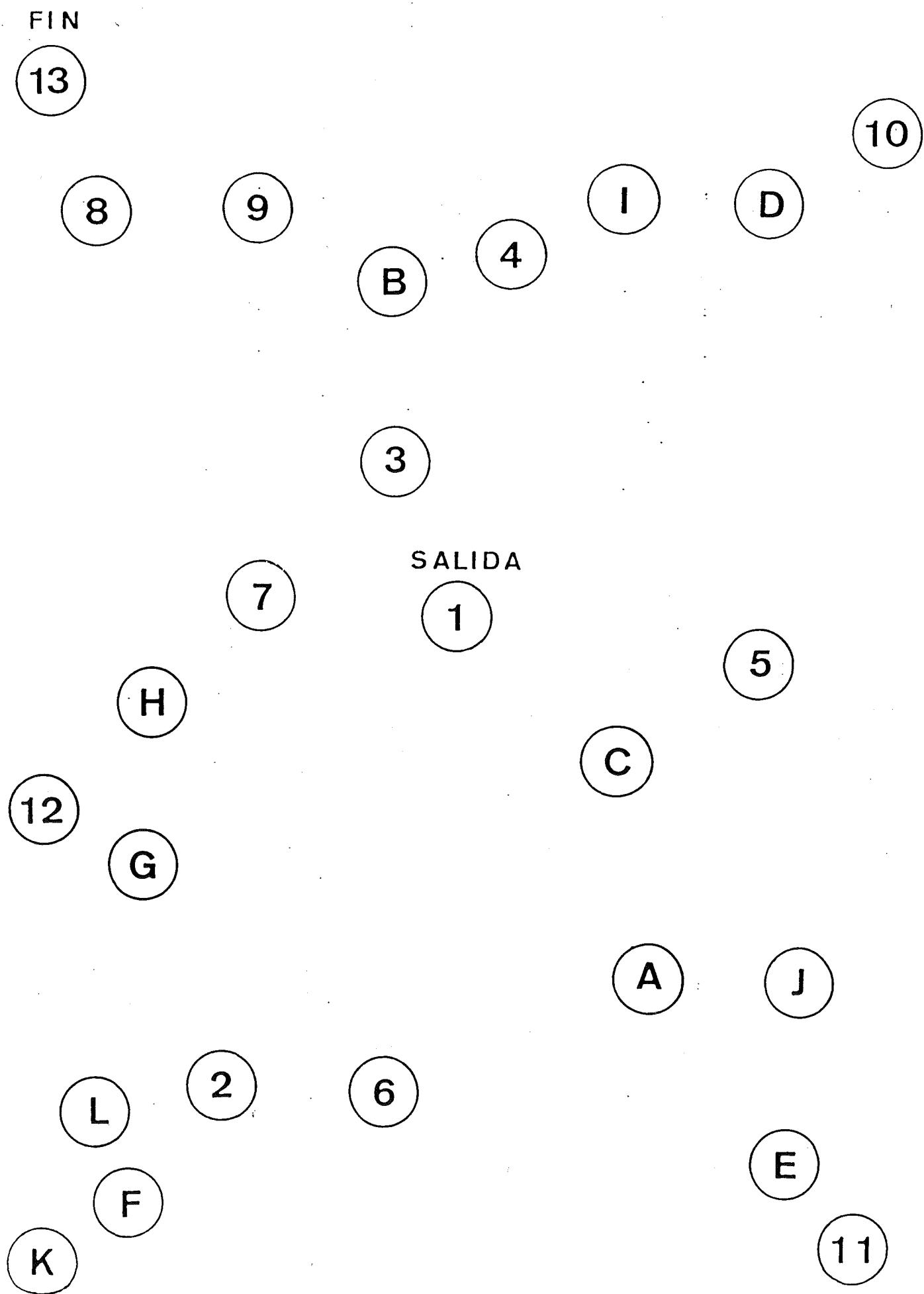


TEST DEL TRAZO

PARTE B

EJEMPLO





DIGITOS

Orden directo. rodear

5 8 2

6 9 4

6 4 3 9

7 2 8 6

4 2 7 3 1

7 5 8 3 6

6 1 9 4 7 3

3 9 2 4 8 7

5 9 1 7 4 2 8

4 1 7 9 3 8 6

5 8 1 9 2 6 4 7

3 8 2 9 5 1 7 4

2 7 5 8 6 3 9 1 4

7 1 3 9 4 2 5 6 8

Orden inverso

2 4

5 8

6 2 9

4 1 5

3 2 7 9

4 9 6 8

1 5 2 8 6

6 1 8 4 3

5 3 9 4 1 8

7 2 4 8 5 6

8 1 2 9 3 6 5

4 7 3 9 1 2 8

9 4 3 7 6 2 5 8

7 2 8 1 9 6 5 3

rodear

2

2

3

3

4

4

5

5

6

6

7

7

8

8

SEÑALADO

Orden directo

2

2

3

3

4

4

5

5

6

6

7

7

8

8

Orden inverso

2

2

3

3

4

4

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5

6

6

7

7

8

8

D _____ + I _____ = _____

D _____ + I _____ = _____

MEMORIA ASOCIATIVA1^a presentación

metal - hierro

niño - llanto

machacar - oscuro

norte - sur

escuela - almacén

rosa - flor

arriba - abajo

obedecer - centímetro

fruta - manzana

col - lápiz

norte _____

fruta _____

obedecer _____

rosa _____

niño _____

arriba _____

col _____

metal _____

escuela _____

machacar _____

Total _____

2^a presentación

rosa - flor

obedecer - centímetro

norte - sur

col - lápiz

arriba - abajo

fruta - manzana

escuela - almacén

metal - hierro

machacar - oscuro

niño - llanto

col _____

niño _____

metal _____

escuela _____

arriba _____

rosa _____

obedecer _____

fruta _____

machacar _____

norte _____

Total _____

3^a presentación

niño - llanto

obedecer - centímetro

norte - sur

escuela - almacén

rosa - flor

col - lápiz

arriba - abajo

fruta - manzana

machacar - oscuro

metal - hierro

obedecer _____

fruta _____

niño _____

metal _____

machacar _____

escuela _____

rosa _____

norte _____

col _____

arriba _____

Total _____

Fáciles1^a _____

Difíciles

2^a _____3^a _____

Total _____ /2= _____

Puntuación total = fáciles/2 + difíciles _____

EXPLORACION NEUROPSICOLOGICA

Apellidos

Nombre Historia nº:

1. Grupo 1 1 1 1 (1)

2. Número 1 1 1 1 (4)

3. Número de exploración 1 1 (9)

4. Fecha 1 1 1-1 1-1 1 (10)

5. Edad 1 1 1 (16)

6. Sexo (1=masculino, 2=femenino) 1 1 (18)

DATOS SOCIOCULTURALES

7. Titulación académica 1 1 (19)

1 analfabeto

2 sin titulación, pero sabe leer y escribir

3 primer grado

4 segundo grado, primer ciclo

5 segundo grado, segundo ciclo

6 escuelas universitarias y técnicas

7 universitario

8. Categoría laboral más alta alcanzada 1 1 (20)

1 nunca ha trabajado en puesto retribuido

2 aprendiz, peón (ind. o serv.), bracero

3 oficial u obrero (ind. o serv.) especializado

4 jefe o maestro de taller (ind. o serv.)

5 conserje, subalterno

6 administrativo, pequeño propietario

7 jefe o técnico no titulado, pequeño empleador

8 jefe o técnico titulado, empleador mediano

9 alto ejecutivo, gran empleador o prof. de gran prestigio

9. Categoría laboral más alta cabeza familia 1 1 (21)

10. Situación laboral actual 1 1 1 (22)

1 empresario que emplea personal

2 empresario que no emplea personal

3 miembro de cooperativa

4 asalariado fijo

5 asalariado eventual, subempleo

6 sin salario fijo en negocio familiar

7 parado

8 en busca del primer empleo

9 jubilado o incapacitado

10 estudiante

11 ama de casa

INTELIGENCIA GENERALVocabulario: 11. p. directa .. 1 1 1 (24)12. NOTA I ... 1 1 1 (26)Cubos de Kohs: 13. p. directa .. 1 1 1 (28)14. NOTA I ... 1 1 1 (30)ORIENTACION TEMPORAL

15. p. directa .. 1 1 1 (32)

ABSTRACCION/FORMACION DE CONCEPTOSSemejanzas

16. p. directa .. 1 1 1 (34)

17. NOTA I ... 1 1 1 (36)Test F-G de Weigl

18. 1a clasificación (1=correcta,2=incorrecta) .. 1 1 (38)

19. Explicación (1=abstr.,2=conc.,3=mal) 1 1 (39)

20. Tiempo en segundos 1 1 1 (40)

21. 2a clasificación (1=correcta,2=incorrecta) .. 1 1 (43)

22. Explicación (1=abstr.,2=conc.,3=mal) 1 1 (44)

23. Tiempo en segundos 1 1 1 (45)

24. ¿Logra aprendizaje? (1=sí,2=no) 1 1 (48)

TESTS PERCEPCION-MOTRICES"Tapping" MacQuarrie

Mano dominante (1=dcha,2=izq) 25. .. 1 1 (49)

Mano dominante 26. p. directa .. 1 1 1 (50)

27. NOTA I ... 1 1 1 (52)

Mano no dominante 28. p. directa .. 1 1 1 (54)

Clave de números 29. p. directa .. 1 1 1 (56)30. NOTA I ... 1 1 1 (58)Test del Trazo

Errores abecedario 31. p. directa .. 1 1 1 (60)

Trazo A 32. p. directa .. 1 1 1 1 (62)

33. NOTA I ... 1 1 1 (65)

Trazo B 34. p. directa .. 1 1 1 1 (67)

35. NOTA I ... 1 1 1 (70)

<u>MEMORIA</u>		<u>MINI-MULTI</u>
<u>"Span" de memoria</u>		Puntuaciones directas
<u>Dígitos directos</u>	36. p. directa . . . (72)	64. L (59)
<u>Dígitos inversos</u>	37. p. directa . . . (74)	65. F (61)
<u>Total d+1=....</u>	38. <u>NOTA I</u> . . . (76)	66. K (63)
<u>Test del señalado</u>	39. p. directa . . . (78)	67. Hs (65)
<u>Idem inverso</u>	40. p. directa . . . (9)	68. D (67)
<u>Memoria inmediata</u>		
Memoria lógica A	41. p. directa . . . (11)	69. Hy (69)
B	42. p. directa . . . (13)	70. Pd (71)
<u>Total (A+B)/2=....</u>	43. <u>NOTA I</u> . . . (15)	71. Pa (73)
Memoria visual A	44. p. directa . . . (17)	72. Pt (75)
B	45. p. directa . . . (19)	73. Sc (77)
C-1	46. p. directa . . . (21)	74. Ma (79)
C-2	47. p. directa . . . (23)	
<u>Total A+B+C1+C2=....</u>	48. <u>NOTA I</u> . . . (25)	<u>NOTAS I</u>
<u>Memoria a corto plazo</u>		
Memoria lógica A	49. p. directa . . . (27)	75. L (9)
B	50. p. directa . . . (29)	76. F (12)
	51. porcentaje . . (31)	77. K (15)
Memoria visual A	52. p. directa . . . (34)	78. Hs (18)
B	53. p. directa . . . (36)	79. D (21)
C-1	54. p. directa . . . (38)	80. Hy (24)
C-2	55. p. directa . . . (40)	81. Pd (27)
	56. porcentaje . . (42)	82. Pa (30)
<u>Aprendizaje Asociativo</u>		
Fáciles 1 ^a pres.	57. p. directa . . . (45)	83. Pt (33)
2 ^a pres.	58. p. directa . . . (47)	84. Sc (36)
3 ^a pres.	59. p. directa . . . (49)	85. Ma (39)
Difíciles 1 ^a pres.	60. p. directa . . . (51)	
2 ^a pres.	61. p. directa . . . (53)	
3 ^a pres.	62. p. directa . . . (55)	
<u>Total (F/2)+D=....</u>	63. <u>NOTA I</u> . . . (57)	<u>OBSERVACIONES:</u>

ANEXO II:

BAREMOS DE LA EXPLORACION NEUROPSICOLOGICA

En este anexo se incluye información útil para la corrección de la batería neuropsicológica. En primer lugar se ofrecen una transformación de las puntuaciones directas en notas T, derivadas a partir de las fuentes originales de los tests empleados o de tipificaciones posteriores en población general. Dada la diversidad de las fuentes los intervalos de edad no son coincidentes.

A continuación se presenta la tipificación de las puntuaciones brutas en el grupo de sujetos normales empleado como grupo control en el presente trabajo, cuyas características sociodemográficas se han descrito en el apartado 2.2.2. Se incluye la transformación de las puntuaciones en notas T y las notas escaladas en relación al ITP, de acuerdo con los estudios de validación de la batería desarrollados en el apartado 3.1. Van seguidas de una tabla para la determinación del punto crítico, en función de la edad y el nivel educativo, que mejor discrimina estadísticamente entre sujetos normales y con lesión cerebral leve.

Finalmente, se presenta un programa en lenguaje Basic que simplifica la corrección, junto a un ejemplo del informe resultante.

BAREMOS VOCABULARIO**Edad**

<u>Nota T</u>	18-19	20-24	25-34	35-44	45-54	55-64	65-69	70-74
80	76-79	78-79	79	79	79	79	78-79	78-79
77	72-75	77	77-78	77-78	78	78	77	76-77
73	69-71	72-76	74-76	75-76	76-77	76-77	74-76	72-75
70	66-68	68-71	71-73	74	74-75	74-75	71-73	70-71
67	63-65	65-67	68-70	71-73	71-73	71-73	67-70	60-69
63	58-62	62-64	65-67	69-70	67-70	67-70	59-66	54-59
60	53-57	56-61	60-64	63-68	61-66	60-66	54-58	50-53
57	46-52	51-55	55-59	55-62	54-60	54-59	50-53	44-49
53	41-45	45-50	48-54	47-54	46-53	45-53	53-49	35-43
50	34-40	38-44	41-47	41-46	39-45	37-44	35-42	30-34
47	29-33	31-37	33-40	35-40	33-38	32-36	30-34	24-29
43	25-28	25-30	27-32	29-34	27-32	26-31	24-29	19-23
40	21-24	21-24	23-26	23-28	22-26	19-25	19-23	16-18
37	15-20	16-20	20-22	19-22	16-21	15-18	15-18	13-15
33	12-14	12-15	16-19	14-18	14-15	12-14	11-14	11-12
30	11	11	13-15	11-13	11-13	10-11	10	10
27	9-10	9-10	10-12	10	9-10	6- 9	6- 9	6- 9
23	5- 8	8	9	9	5- 8	2- 5	2- 5	2- 5
20	3- 4	5- 7	5- 8	5- 8	1- 4	1	1	1
17	0- 2	0- 4	0- 4	0- 4	0	0	0	0

Puntuaciones T obtenidas a partir de los baremos originales. Wechsler, D. (1955). **Manual for the Wechsler Adult Intelligence Scale.** New York, The Psychological Corporation.

BAREMOS CUBOS DE KOHS

	Edad							
Nota T	18-19	20-24	25-34	35-44	45-54	55-64	65-69	70-74
80	---	---	---	---	---	48	46-48	44-48
77	---	---	---	48	48	46-47	43-45	43
73	48	48	48	---	46-47	43-45	42	39-42
70	47	---	---	46-47	45	41-42	41	37-38
67	46	46-47	46-47	45	41-44	39-40	39-40	33-36
63	44-45	44-45	44-45	43-44	38-40	36-38	36-38	29-32
60	41-43	41-43	42-43	40-42	35-37	33-35	31-35	---
57	38-40	38-40	39-41	37-39	32-34	29-32	29-30	26-28
53	33-37	35-37	34-38	32-36	29-31	28	28	24-25
50	30-32	32-34	31-33	29-31	27-28	24-27	24-27	21-23
47	28-29	29-31	29-30	27-28	24-26	21-23	21-23	17-20
43	25-27	25-28	25-28	24-26	21-23	18-20	18-20	13-16
40	21-24	21-24	21-24	20-23	17-20	14-17	13-17	9-12
37	17-20	17-20	16-20	15-19	13-16	8-13	8-12	6- 8
33	13-16	13-16	13-15	11-14	10-12	5- 7	5- 7	5
30	9-12	9-12	12	7-10	6- 9	4	4	2- 4
27	3- 8	3- 8	7-11	3- 6	3- 5	2- 3	2- 3	1
23	1- 2	2	2- 6	2	2	1	1	---
20	---	1	1	1	1	---	---	---
17	0	0	0	0	0	0	0	0

Puntuaciones T obtenidas a partir de los baremos originales. Wechsler, D. (1955). *Manual for the Wechsler Adult Intelligence Scale*. New York, The Psychological Corporation.

BAREMOS SEMEJANZAS

Nota T	Edad							
	18-19	20-24	25-34	35-44	45-54	55-64	65-69	70-74
80	25	---	25	25	25	24-25	23	22-23
77	23-24	25	24	24	24	---	22	---
73	---	24	23	23	23	23	---	20-21
70	22	23	---	22	22	22	20-21	19
67	21	22	22	21	21	20-21	19	17-18
63	20	21	21	20	20	19	17-18	16
60	18-19	18-20	19-20	19	18-19	17-18	16	14-15
57	16-17	17	18	17-18	16-17	15-16	14-15	12-13
53	15	16	16-17	15-16	14-15	12-14	12-13	10-11
50	13-14	14-15	14-15	13-14	11-13	10-11	10-11	8- 9
47	11-12	12-13	11-13	11-12	9-10	8- 9	8- 9	6- 7
43	7-10	10-11	8-10	8-10	6- 8	5- 7	5- 7	5
40	6	7- 9	7	6- 7	4- 5	4	4	4
37	4- 5	5- 6	5- 6	4- 5	3	3	3	2- 3
33	3	4	4	3	2	2	2	---
30	2	2- 3	3	2	---	1	1	1
27	1	1	2	1	1	---	---	---
23	---	---	1	---	---	---	---	---
20	---	---	---	---	---	---	---	---
17	0	0	0	0	0	0	0	0

Puntuaciones T obtenidas a partir de los baremos originales. Wechsler, D. (1955). *Manual for the Wechsler Adult Intelligence Scale*. New York, The Psychological Corporation.

BAREMOS CLAVE

	Edad							
Nota T	18-19	20-24	25-34	35-44	45-54	55-64	65-69	70-74
80	89-90	89-90	90	88-90	84-90	75-90	57-70	52-70
77	87-88	82-88	80-89	79-87	76-83	70-74	55-56	49-51
73	82-86	79-81	79	76-78	70-75	66-69	47-54	47-48
70	77-81	77-78	76-78	71-75	66-69	59-65	43-46	42-46
67	72-76	72-76	72-75	68-70	63-65	55-58	42	36-41
63	69-71	69-71	69-71	64-67	58-62	50-54	39-41	31-35
60	64-68	65-68	65-68	58-63	54-57	47-49	36-38	28-30
57	60-63	61-64	61-64	54-57	48-53	41-46	33-35	25-27
53	56-59	57-60	57-60	49-53	43-47	36-40	29-32	21-24
50	51-55	54-56	51-56	43-48	38-42	33-35	26-28	19-20
47	45-50	49-53	45-50	39-42	32-37	27-32	22-25	15-18
43	41-44	44-48	40-44	36-38	27-31	22-26	17-21	12-14
40	36-40	40-43	34-39	30-35	24-26	17-21	13-16	10-11
37	32-35	32-39	29-33	23-29	20-23	14-16	9-12	9
33	27-31	24-31	21-28	18-22	15-19	11-13	8	8
30	22-26	20-23	18-20	12-17	9-14	8-10	7	7
27	10-21	13-19	16-17	7-11	7- 8	7	5- 6	4- 6
23	6- 9	9-12	7-15	5- 6	4- 6	4- 6	4	3
20	5	5- 8	5- 6	3- 4	3	3	3	---
17	0- 4	0- 4	0- 4	0- 2	0- 2	0- 2	0- 2	0- 2

Puntuaciones T obtenidas a partir de los baremos originales. Wechsler, D. (1955). *Manual for the Wechsler Adult Intelligence Scale*. New York, The Psychological Corporation.

BAREMOS DIGITOS**Edad**

Nota T	18-19	20-24	25-34	35-44	45-54	55-64	65-69	70-74
80	---	---	---	---	---	17	17	17
77	17	17	17	17	17	16	16	16
73	---	---	---	---	16	---	15	15
70	16	16	16	16	---	15	---	---
67	15	15	15	15	15	14	13-14	13-14
63	14	14	---	14	13-14	13	12	12
60	13	13	14	13	---	12	---	11
57	12	---	13	12	12	---	11	---
53	---	12	12	---	11	11	10	10
50	11	11	11	11	10	10	---	---
47	10	10	10	10	---	9	9	9
43	9	---	---	9	9	8	8	8
40	---	9	9	---	8	---	---	---
37	8	8	8	8	---	7	7	7
33	---	---	---	---	7	---	---	6
30	7	7	7	7	---	6	6	---
27	6	---	---	6	5- 6	5	5	5
23	4- 5	4- 6	4- 6	4- 5	3- 4	3- 4	3- 4	3- 4
20	3	3	3	3	2	1- 2	1- 2	1- 2
17	0- 2	0- 2	0- 2	0- 2	0- 1	0	0	0

Puntuaciones T obtenidas a partir de los baremos originales. Wechsler, D. (1955). *Manual for the Wechsler Adult Intelligence Scale*. New York, The Psychological Corporation.