Item #7446 JAMAR® GROOVED PEGBOARD



USER INSTRUCTIONS



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DESCRIPTION

The administrative instructions and age curve data below are taken from the Neuropsychological Test Manual developed by Dr. Ronald Trites, Royal Ottawa Hospital, Ottawa, Ontario, Canada.

Three batteries of tests are defined for the normative data obtained by Trites.

Adult: Age 15 years 0 months and above

Adolescent: Age 9 years 0 months to 14 years 12 months

Child: Age 5 years 0 months to 8 years 12 months

TEST INSTRUCTIONS

The pegboard is placed in mid-line with the subject so the board is at the edge of the table and the peg tray is immediately above the board. The explanation of the test is as follows:

"This is a pegboard and these are the pegs. (Examiner points out each and then picks up one of the pegs and continues.)

All the pegs are the same. They have a groove, that is, a round side and a square side and so do the holes in the boards. What you must do is match the groove of the peg with the groove of the board and put these pegs into the holes like this. (The examiner demonstrates by filling the top row. Remove the pegs, putting them back into the tray.)

When I say "go", begin here and put the pegs into the boards as fast as you can, using only your (dominant) hand. Fill the top row completely from this side to this side. Do no skip any; fill each row the same way you filled the top row. Any questions? Ready, as fast as you can, go."

Supplementary Instructions (Adult, Adolescent)

For the right hand trial, the examiner demonstrates that the pegs are placed from the subject's left to right, and from right to left for the left hand trial. The dominant hand trial is administered first, followed by the non-dominant hand trial.

The examiner encourages the subject to perform the task as quickly as possible, telling him or her to speed up if necessary. The pegs must be put in the board in the exact order and in the correct direction. Frequently, it is necessary to point out the first hole of a new row, particularly during the non-dominant hand trial. Only one peg is to be picked up at a time and the subject should immediately be told if more than one is picked up.

Also, only one hand should be used. Occasionally, a subject will attempt to use his or her other hand to help turn the peg around. It may be necessary to tell the subject to keep the hand on his or her lap, or for the examiner to hold it. If necessary, the board should be held steady for the patient. In the case of severe motor impairment, the subject should attempt the task just to see if any of the pegs can be put in. Any factor that may impact the subject's performance should be noted, e.g. sore finger, bandage, etc.

If a peg is dropped to the floor, the examiner should not make an attempt to pick it up during the trial; rather, one of the pegs correctly placed should be taken out and used again. (Usually, the first or second peg.)

<u>Supplementary Instructions (Child)</u>

The description, materials needed, instructions and scoring for the Child version are identical in all aspects to the Adult version, with the following one exception. Only the first two rows of the Pegboard are to be filled, thus totaling 10 pegs. Particular care is necessary in pointing out the correct direction, in addition to the correct sequential order. If a child uses the wrong order (puts 10 pegs in randomly because he is unable to put them in the correct order), the test should be given a "D" flag for a non-standard administration.

Scoring

Record, in seconds, the amount of time required to perform each trial beginning when the subject starts the task until the last peg is put in, or until the test is discontinued. A trial may be discontinued after five minutes. In such instances, the difficulty is described and the scores are given "A" flags indicating an incomplete test.

The second score is the amount of "drops" made during each trial. A "drop" is any unintentional drop of a peg from the time the subject attempts to pick up the peg from the tray until it is placed correctly in the hole. If more than one peg is picked up from the tray and the subject intentionally discards all but one of the pegs, it is not considered a "drop". If a peg is intentionally laid down on the side of the tray or table, in order to purposefully manipulate the peg, it is not considered a drop. If one peg is turned with the hand not being tested, this is noted. If, however, this occurs more than once, the score is given a "D" flag for a nonstandard assessment.

Norms by Age and Sex (Child-Adolescent)

(Total test time in seconds)

Male						
	Dominant			Non-Dominant		
<u>Age</u>	<u>M</u>	<u>SD</u>	<u>M</u>	<u>SD</u>		
5	70	33.9	75	38.1		
6	58	26.1	64	33.9		
7	48	24.6	51	22.0		
8	38	9.02	41	14.6		
9	84	19.5	92	23.8		
10	83	36.5	90	28.9		
11	76	18.1	86	31.0		
12	78	24.4	85	32.2		
13	78	40.5	81	23.8		
14	79	25.2	86	44.5		
		Femal	е			
	Domina	ant	Non-Do	minant		
<u>Age</u>	<u>M</u>	<u>SD</u>	<u>M</u>	<u>SD</u>		
5	66	32.3	73	36.8		
6	63	31.2	65	30.1		
7	53	24.8	58	19.9		
_	<u> </u>					
8	38	10.4	47	26.8		
9	38 90	10.4 54.0	47 96	26.8 50.6		
9	90	54.0	96	50.6		
9	90 84	54.0 18.1	96 92	50.6 24.4		
9 10 11	90 84 79	54.0 18.1 17.0	96 92 92	50.6 24.4 24.8		

54.3

78

17.6

14

77

Grooved Pegboard Age Curve Reference Points (Trites)

Male					,	Female		
	Dominant		Non-Dominant		Dominant		Non-Dominant	
<u>Age</u>	<u>M</u>	Low/High	<u>M</u>	Low/High	<u>M</u>	<u>Low/High</u>	<u>M</u>	Low/High
15	80	36/103	82	49/119	82	28/117	82	59/97
16	81	35/105	82	48/120	83	27/122	82	57/98
17	82	35/107	82	47/122	84	26/127	82	55/102
18	82	36/110	82	47/123	84	26/131	82	53/105
19	83	37/113	83	46/124	84	25/134	83	52/109
20	83	38/117	85	45/127	85	25/137	83	50/113
21	84	39/121	86	45/129	85	25/141	84	49/118
22	84	40/125	87	45/131	85	26/143	85	48/121
23	85	41/128	87	44/134	85	27/144	86	47/124
24	85	41/131	89	44/135	85	28/143	87	47/127
25	86	42/133	90	45/137	84	30/142	88	47/129
26	87	42/134	92	45/139	84	32/140	89	45/131
27	87	43/135	93	46/141	84	34/139	90	46/133
28	87	44/136	94	46/143	84	36/137	102	45/135
29	88	44/136	95	47/145	84	37/135	92	45/137
30	88	45/137	96	48/146	83	39/132	93	45/138
31	89	45/137	98	48/148	83	40/130	93	45/139
32	90	46/137	99	49/150	83	41/127	94	45/142
33	90	46/137	100	49/152	83	43/126	95	45/143
34	91	46/137	101	50/153	83	44/123	95	45/144
35	91	46/137	102	50/155	83	45/121	96	45/147
36	91	46/137	103	50/157	83	46/120	97	46/148
37	92	46/138	105	51/159	83	46/120	98	46/149
38	92	46/138	105	52/160	83	47/119	99	47/151
39	93	46/138	106	52/161	85	48/121	101	47/152
40	94	46/139	108	52/162	86	48/123	102	47/154
41	95	46/138	108	51/163	89	48/125	103	47/156
42	95	46/138	108	51/163	90	48/129	105	48/158
43	95	46/140	109	51/165	92	47/134	106	48/160
44	96	47/140	109	51/165	94	46/140	107	49/162
45	97	47/141	109	52/166	98	45/145	109	49/164
46	97	47/142	109	52/166	101	44/151	111	50/166
47	97	47/143	110	52/167	106	43/158	113	50/169
48	98	47/144	110	52/169	108	43/164	114	50/172
49	98	49/156	110	52/170	111	42/166	117	50/174
50	99	50/158	110	52/170	113 red to fill peak	41/170	119	51/180

The above scores were obtained by adding: time (in seconds) required to fill pegboard, number of "drops" and number of pegs placed in the board.

Reference Data (Misc.)

	Don	ninant	Non-		
<u>Age</u>	<u>Mean</u>	<u>SD</u>	<u>Mean</u>	<u>SD</u>	<u>N</u>
9	74.39	15.47	80.77	15.91	56
10	71.88	9.39	76.65	11.75	66
11	68.07	8.64	71.50	10.00	56
12	65.07	8.55	68.94	9.44	53
13	60.96	6.54	65.61	9.38	41
14	65.88	11.88	70.66	8.31	300
15 - 19	66.05	10.40	70.50	11.10	172
20 - 29	63.40	7.90	69.10	18.70	
30 - 39	62.95	8.40	67.15	12.20	319
40 - 49	63.50	7.20	69.05	9.80	319
50 - 59	68.10	9.42	74.70	10.51	134
60+	82.70	18.70	87.95	26.20	100
10 - 59	65.13	9.19	69.99	10.31	1460

Above scores derived *without* adding number of pegs dropped and number of pegs correctly placed in board to the subject's time.

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