

TABLE RS1.10

STANDARD PROGRESSIVE MATRICES: PERCENTILES

Age:	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	12½	13	13½	14	14½	15	15½
Total Score	6.03	6.09	7.03	7.09	8.03	8.09	9.03	9.09	10.03	10.09	11.03	11.09	12.03	12.09	13.03	13.09	14.03	14.09	15.03
	6.08	7.02	7.08	8.02	8.08	9.02	9.08	10.02	10.08	11.02	11.08	12.02	12.08	13.02	13.08	14.02	14.08	15.02	15.08
6	0	1																	
7	3	1																	
8	4	1		0															
9	5	1		1	0	0													
10	11	5	0	3	1	1		0											
11	13	7	5	4	4	1		1											
12	19	11	9	7	6	2	0	1				0							
13	25	14	14	9	7	2	3	2				1		0					
14	30	21	20	10	7	3	4	2			0	1		1					
15	38	28	24	13	8	7	6	2			1	1		1					
16	49	42	28	16	9	8	7	4	0		1	1	2	1					
17	51	50	31	21	9	11	8	5	1		1	2	2	2					
18	57	58	32	27	11	13	9	6	1		1	2	2	2					
19	62	63	36	32	13	14	10	7	1		1	2	2	2					
20	68	66	39	33	16	18	11	8	2		2	3	2	2					
21	73	69	43	38	17	18	13	8	4		2	3	2	3			0		0
22	75	72	47	40	20	22	15	9	4		3	3	2	3			1		1
23	78	73	54	43	24	27	16	11	4		3	4	3	4			1		1
24	81	78	59	46	26	28	18	12	5		3	6	3	4			1	0	1
25	82	83	62	50	29	31	18	13	7		4	6	3	5			2	2	1
26	83	84	64	51	34	33	23	15	8		4	6	3	6			2	2	3
27	85	84	68	52	35	36	25	16	9		4	7	4	6			2	2	3
28	86	87	70	55	38	39	27	18	10		6	7	6	6			2	2	4
29	89	89	72	59	42	42	30	20	11		7	7	7	9			3	2	4
30	91	90	77	62	46	43	32	21	14		10	9	7	9			5	5	2
31	91	92	79	64	50	48	34	23	16		15	12	10	9			6	5	2
32	94	93	81	66	54	50	38	26	20		20	15	12	12			7	6	4
33	95	94	83	73	60	56	42	29	24		20	16	13	13			8	7	4
34	96	96	85	77	64	59	46	33	29		23	18	14	15			8	8	5
35	96	97	89	80	70	62	51	35	33		28	23	18	17			9	8	6
36	97	97	93	83	74	67	56	40	37		31	25	21	20			10	10	9
37	97	98	95	85	77	69	60	44	39		35	27	23	23			11	11	11
38	97	99	96	86	81	75	63	50	43		41	31	32	27			12	12	12
39	97	99	97	88	84	78	67	56	51		46	38	34	31			13	13	15
40	98	99	97	91	89	81	73	64	57		51	43	42	38			14	14	19
41	98	100	97	94	92	85	76	69	62		58	51	50	42			15	15	22
42	99	100	99	95	92	92	80	73	69		62	57	55	51			16	16	24
43	99		100	95	94	93	87	77	73		67	60	64	55			17	17	26
44	100			97	96	95	91	80	80		73	65	67	60			18	18	33
45				97	98	98	93	87	83		77	71	73	70			19	19	39
46				97	98	98	93	87	83		77	71	73	70			20	20	43
47				98	98	98	95	91	88		81	78	76	74			21	21	50
48				98	99	100	96	94	90		86	81	79	80			22	22	57
49				99			99	97	96		94	90	87	88			23	23	61
50				100			100	99	98		99	95	93	90			24	24	67
51								100	99		100	98	95	93			25	25	73
52									100		100	99	96	95			26	26	81
53											100	99	97	97			27	27	85
54												100	99	97			28	28	90
55													100	99			29	29	93
56														100			30	30	94
57															100		31	31	97
58																100	32	32	99
59																	33	33	100
60																	34	34	100

r (SPM x age) = .68

A Table for Conveniently Comparing Percentile Points and PM Grades with IQs, Standard Deviations, Standard Scores, and Stanines

I.Q.	Percentile Rank	PM Grade	Standard Score	Stanine	Standard Deviation	I.Q.	Percentile Rank	PM Grade	Standard Score	Stanine	Standard Deviation
			9.4	9	+ 2.33						
135	99.0	I	9.3	9	+ 2.27	99	47.2	III-	4.8	5	-0.07
134	98.8	I	9.2	9	+ 2.20	98	44.8	III-	4.7	5	-0.13
133	98.6	I	9.1	9	+ 2.13	97	42.1	III-	4.6	5	-0.20
132	98.3	I	9.0	9	+ 2.07	96	39.4	III-	4.4	4	-0.27
131	98.1	I	8.8	9	+ 2.00	95	37.1	III-	4.3	4	-0.33
130	97.7	I	8.7	9	+ 1.93	94	34.5	III-	4.2	4	-0.40
129	97.3	I	8.6	9	+ 1.87	93	31.9	III-	4.1	4	-0.47
128	96.9	I	8.5	9	+ 1.80	92	29.8	III-	3.9	4	-0.53
127	96.4	I	8.4	8	+ 1.73	91	27.4	III-	3.8	4	-0.60
126	95.8	I	8.3	8	+ 1.67	90	25.1	III-	3.6	4	-0.67
125	95.2	I	8.2	8	+ 1.60	89	23.3	IV	3.5	4	-0.73
124	94.5	II+	8.1	8	+ 1.53	88	21.2	IV	3.4	3	-0.80
123	93.7	II+	7.9	8	+ 1.47	87	19.2	IV	3.3	3	-0.87
122	92.9	II+	7.8	8	+ 1.40	86	17.6	IV	3.2	3	-0.93
121	91.9	II+	7.7	8	+ 1.33	85	15.9	IV	3.0	3	-1.00
120	90.8	II+	7.6	8	+ 1.27	84	14.2	IV	2.8	3	-1.07
119	89.8	II	7.5	8	+ 1.20	83	12.9	IV	2.7	3	-1.13
118	88.5	II	7.3	7	+ 1.13	82	11.5	IV	2.5	3	-1.20
117	87.1	II	7.2	7	+ 1.07	81	10.2	IV-	2.4	2	-1.27
116	85.8	II	7.0	7	+ 1.00	80	9.2	IV-	2.3	2	-1.33
115	84.1	II	6.9	7	+ 0.93	79	8.1	IV-	2.2	2	-1.40
114	82.4	II	6.7	7	+ 0.87	78	7.1	IV-	2.1	2	-1.47
113	80.8	II	6.6	7	+ 0.80	77	6.3	IV-	1.9	2	-1.53
112	78.8	II	6.4	6	+ 0.73	76	5.5	V	1.7	2	-1.60
111	76.7	II	6.3	6	+ 0.67	75	4.8	V	1.6	2	-1.67
110	74.9	III+	6.2	6	+ 0.60	74	4.2	V	1.4	2	-1.73
109	72.6	III+	6.0	6	+ 0.53	73	3.6	V	1.2	1	-1.80
108	70.2	III+	5.9	6	+ 0.47	72	3.1	V	1.1	1	-1.87
107	68.1	III+	5.7	6	+ 0.40	71	2.7	V	1.0	1	-1.93
106	65.5	III+	5.6	6	+ 0.33	70	2.3	V	0.9	1	-2.00
105	62.9	III+	5.5	6	+ 0.27	69	1.9	V	0.8	1	-2.07
104	60.6	III+	5.4	5	+ 0.20	68	1.7	V	0.7	1	-2.13
103	57.9	III+	5.2	5	+ 0.13	67	1.4	V	0.6	1	-2.20
102	55.2	III+	5.1	5	+ 0.07	66	1.2	V	0.6	1	-2.27
101	52.8	III+	5.0	5	0	65	1.0	V	0.6	1	-2.33
100	50.0	III+									

NOTE: This table is provided to facilitate general comparisons only. RPM scores should not be converted to deviation IQs because the distribution of the scores is not Gaussian for most of the populations which have been studied.

Using the estimates of the relative item difficulties, separate ability estimates corresponding to each raw score on the SPM and APM were estimated. For each possible total raw score on each of the SPM and APM, a unique ability estimate on the same scale can be obtained. Graph RS4C2 shows these conversions from raw scores to estimates in logits. The figures in Table RS4C2 were read off from the graph.

**TABLE RS4C1**

**TABLE TO CONVERT COLOURED AND STANDARD PROGRESSIVE MATRICES RAW SCORES**

RAW SCORES		RAW SCORES	
CPM	SPM	CPM	SPM
0	0	18	17
1	1	19	19
2	2	20	20
3	3	21	21
4	4	22	22
5	5	23	24
6	6	24	26
7	7	25	27
8	8	26	29
9	9	27	30
10	9	28	32
11	10	29	35
12	11	30	36
13	12	31	39
14	13	32	41
15	14	33	44
16	15	34	48
17	16	35	52
		36	57

extrapolations

