APPENDIX to Chapter 5

TABLE eA5.1 TOPF Equations for WASI−II and WAIS−IV GAI and CPI

Independent Variable	WASI−II 4 FSIQ	WASI−II 2 FSIQ	WASI−II VCI	WASI−II PRI	WAIS−IV GAI	WAIS−IV CPI
Constant	31.14939104	21.42289009	30.02656236	37.93473595	40.79351	30.95822285
Education	0.698346784	0.444377546	0.739673574	0.404309398	0.757095684	1.974000661
Education^2	−	−	−	−	−	− 0.095287171
Occupation	0.851680164	0.815405925	0.656290091	0.836653448	0.767068637	0.844810128
TOPF_Equated	0.533315988	0.538087364	0.588866979	0.335206529	0.548169444	0.416671256
Sex	2.310109011	2.808981943	1.065313722	3.082520128	4.091308884	−
Region	−	−	−	−	−	−
Northeast	− 3.007567526	− 2.62425176	− 2.062072506	− 2.067960799	− 1.845260973	−
Midwest	− 1.485120726	−	−	−	−	−
South	−	−	−	−	−	−
West	−	−	1.603156037	−	−	−
Ethnicity	−	−	−	−	−	−
African-American	−	−	−	−	− 7.399545858	−
Asian-American	−	7.099784178	−	7.338704598	−	7.925180368
Hispanic	−	−	−	−	−	−
White	4.983575051	5.443810846	2.774294463	6.950484843	−	4.135941067

Note: Education = 13 education groups entered as a continuous variable. Occupation = 9 groups entered as a continuous variable. TOPF = Test of Premorbid Functioning, sex coded F = 1 and M = 2, For WASI equations Ethnicity coded 1 = belongs to group 0 = does not belong to group and Region coded 1 = lives in that region 0 = does not live in that region and For WAIS−IV Equations Ethnicity coded 2 = belongs to group 1 = does not belong to group and Region coded 2 = lives in that region 1 = does not live in that region.Copyright 2009 Pearson, Inc. Reproduced with permission. All rights reserved.

TABLE eA5.2 Values for Highest Level of Self-Reported Education and Occupation

Highest Self-Reported Education	Value	Highest Self-Reported Occupation	Value
Kindergarten-7th grade	1	General Laborer	1
8-10th grade	2	Homemaker	2
11th grade	3	Unemployed, not seeking work	2
GED/Skilled Apprenticeship	4	Transportation Trades	3
High School Diploma	5	Retired or Customer Service	4
Trade or Vocational School	6	Skilled Trade or Public Safety	5
1 year of College	7	Unemployed, seeking work/not in labor force	6
Associates Degree or 2 years of College	8	Administrative or Clerical	6
3–5 years of College, no degree	9	Self-Employed or Business owner	6
Bachelor's degree	10	First Line Supervisor	6
Post-Bachelor's/Master's Degree	11	Manager	7
Post-Master's, no doctorate	12	Professional/Individual Contributor	8
Doctorate (e.g., Ph.D., M.D., J.D.)	13	Director or Executive	9

TABLE eA5.3 TOPF Equated WASI−II and WAIS−IV GAI and CPI

TOPF Standard Score	WASI−II 4 FSIQ	WASI−II 2 FSIQ	WASI−II VCI	WASI−II PRI	WAIS−IV GAI	WAIS−IV CPI
50	50	50	49	50	45	40
51	50	50	49	50	45	40
52	51	50	49	50	46	40
53	51	50	49	50	47	40
54	52	50	49	50	47	40
55	52	51	49	50	48	40
56	53	51	49	50	48	41
57	53	51	49	50	49	42
58	54	52	49	50	49	43
59	54	52	49	51	50	44
60	55	53	49	51	50	45
61	56	53	51	52	51	46
62	56	54	53	53	53	47
63	57	54	55	54	55	48
64	57	55	56	55	55	49
65	57	55	57	56	56	50
66	57	56	57	57	56	51
67	61	59	58	58	57	53
68	63	61	60	60	59	55
69	63	62	61	62	60	57
70	64	63	62	63	61	58
71	66	65	65	65	65	64
72	68	67	67	67	68	66
73	70	69	69	69	69	70
74	72	71	71	71	70	71
75	73	73	73	73	73	72
76	75	75	75	75	75	75
77	77	76	76	76	76	77

(*Continued*)

TABLE eA5.3 (Continued)

TOPF Standard Score	WASI–II 4 FSIQ	WASI–II 2 FSIQ	WASI–II VCI	WASI–II PRI	WAIS–IV GAI	WAIS–IV CPI
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	81	81	81	81	80	80
81	82	82	82	82	81	82
82	84	84	84	84	83	83
83	85	85	85	85	84	85
84	86	86	86	86	86	86
85	88	87	87	87	87	87
86	89	88	88	88	89	89
87	90	90	90	90	91	91
88	91	91	91	91	92	92
89	92	91	91	91	92	93
90	93	93	93	93	93	94
91	94	93	93	93	94	94
92	94	94	94	94	95	96
93	95	95	95	95	96	96
94	96	96	96	96	97	98
95	96	96	96	96	97	98
96	97	97	97	97	98	99
97	98	98	98	98	99	99
98	99	99	99	99	99	100
99	100	100	100	100	100	100
100	100	100	100	100	101	101
101	101	102	102	102	102	102
102	102	102	102	102	102	102
103	103	103	103	103	103	103
104	104	104	104	104	103	103
105	104	104	104	104	103	103

(*Continued*)

TABLE eA5.3 (Continued)

TOPF Standard Score	WASI–II 4 FSIQ	WASI–II 2 FSIQ	WASI–II VCI	WASI–II PRI	WAIS–IV GAI	WAIS–IV CPI
106	105	105	105	105	104	105
107	106	106	106	106	105	105
108	106	106	106	106	105	105
109	107	107	107	107	106	106
110	108	108	108	108	107	106
111	109	109	109	109	108	108
112	110	110	110	110	110	108
113	111	111	111	111	111	110
114	112	112	112	112	112	112
115	113	113	113	113	113	112
116	114	114	114	114	114	114
117	115	115	115	115	115	114
118	116	116	116	116	117	116
119	117	117	117	117	118	116
120	118	118	118	118	120	118
121	120	120	120	120	121	120
122	122	122	122	122	122	121
123	124	124	124	124	124	123
124	125	125	125	125	125	125
125	126	126	126	126	126	126
126	128	128	128	128	127	128
127	130	130	130	130	130	129
128	132	132	133	132	131	131
129	135	135	134	135	135	135
130	136	136	136	136	136	137
131	138	138	138	137	137	139
132	143	143	143	141	141	141
133	144	144	144	143	143	141

(*Continued*)

TABLE eA5.3 (Continued)

TOPF Standard Score	WASI–II 4 FSIQ	WASI–II 2 FSIQ	WASI–II VCI	WASI–II PRI	WAIS–IV GAI	WAIS–IV CPI
134	145	145	145	144	145	143
135	146	146	146	145	145	145
136	146	146	147	146	146	147
137	147	147	147	147	147	150
138	148	148	148	148	148	151
139	149	149	149	149	149	152
140	150	150	150	150	150	153
141	151	151	151	151	151	154
142	152	152	152	152	152	155
143	154	154	154	154	154	156
144	155	155	155	155	155	157
145	156	156	156	156	156	158
146	158	158	158	158	158	159
147	160	160	160	160	160	160

TABLE eA5.4 Critical Values Required for Statistical Significance Premorbid versus Current WASI–II and WAIS–IV Indexes

	Sig. Level	WASI– II 4 FSIQ	WASI– II 2 FSIQ	WASI– II VCI	WASI– II PRI	WAIS– IV GAI	WAIS– IV CPI
Premorbid Versus	0.05	5.50	6.59	6.38	5.74	5.72	5.67
Current Difference	0.01	7.43	8.90	8.62	7.76	7.52	7.66

TABLE eA5.5 Base Rates of Premorbid (Predicted) Versus Current (Actual) WASI−II Performance

	WASI−II 4 FSIQ		WASI−II 2 FSIQ		WASI−II VCI		WASI−II PRI	
	Actual <Predicted	**Actual >Predicted**	**Actual <Predicted**	**Actual >Predicted**	**Actual <Predicted**	**Actual >Predicted**	**Actual <Predicted**	**Actual >Predicted**
>50	–	–	0.07	0.07	–	–	0.07	0.07
50	–	–	0.14	0.14	–	–	0.14	0.14
49	–	–	0.14	0.14	–	–	0.14	0.14
48	–	–	0.14	0.14	–	–	0.14	0.14
47	–	–	0.14	0.14	–	–	0.14	0.14
46	–	–	0.14	0.14	–	–	0.14	0.14
45	–	–	0.14	0.14	–	–	0.14	0.14
44	–	–	0.22	0.14	–	–	0.22	0.14
43	0.07	–	0.22	0.14	–	–	0.22	0.14
42	0.14	–	0.22	0.14	–	–	0.22	0.14
41	0.14	–	0.29	0.14	0.07	–	0.29	0.14
40	0.14	–	0.29	0.14	0.14	–	0.29	0.14
39	0.14	–	0.29	0.14	0.14	–	0.29	0.14
38	0.14	–	0.29	0.14	0.14	–	0.29	0.14
37	0.14	–	0.29	0.29	0.14	–	0.29	0.29
36	0.14	–	0.36	0.36	0.14	–	0.36	0.36
35	0.14	–	0.36	0.36	0.14	–	0.36	0.36
34	0.14	0.07	0.36	0.36	0.14	0.07	0.36	0.36

33	0.14	0.14	0.43	0.43	0.14	0.14	0.43	0.43
32	0.14	0.14	0.50	0.50	0.14	0.22	0.50	0.50
31	0.14	0.29	0.57	0.57	0.14	0.22	0.57	0.57
30	0.14	0.29	0.57	0.57	0.14	0.29	0.57	0.93
29	0.14	0.43	0.86	0.93	0.14	0.29	0.86	0.93
28	0.14	0.43	1.22	1.29	0.14	0.43	1.15	1.29
27	0.29	0.57	1.44	1.58	0.22	0.79	1.44	1.58
26	0.29	0.72	1.72	2.08	0.29	1.15	1.72	2.08
25	0.43	0.93	2.01	2.37	0.36	1.15	2.01	2.37
24	0.50	1.22	2.37	2.80	0.50	1.51	2.37	2.80
23	0.86	1.44	2.95	3.16	0.79	1.51	2.95	3.16
22	1.15	1.65	3.59	4.02	1.01	1.87	3.59	4.02
21	1.29	2.37	3.95	4.38	1.44	2.08	3.95	4.38
20	1.72	2.73	4.67	4.89	1.72	2.95	4.60	4.89
19	2.23	3.59	5.39	5.68	2.23	3.74	5.39	5.68
18	2.51	4.45	6.25	6.82	2.73	4.31	6.18	6.82
17	3.16	4.81	7.33	8.05	3.52	5.10	7.33	8.05
16	3.81	5.89	8.76	9.27	4.31	6.18	8.76	9.27
15	5.24	6.90	10.20	10.92	5.75	6.97	10.20	10.92
14	6.54	8.84	11.78	13.51	6.97	8.48	11.78	13.51
13	8.41	9.99	13.58	15.45	8.19	10.49	13.58	15.45

TABLE eA5.5 (Continued)

	WASI−II 4 FSIQ		WASI−II 2 FSIQ		WASI−II VCI		WASI−II PRI	
	Actual <Predicted	Actual >Predicted	Actual <Predicted	Actual >Predicted	Actual <Predicted	Actual >Predicted	Actual <Predicted	Actual >Predicted
12	9.99	11.93	16.09	17.24	10.70	11.78	16.09	17.31
11	12.28	14.30	18.61	19.54	12.43	13.65	18.61	19.54
10	15.45	16.09	21.12	21.77	15.16	16.09	21.12	21.77
9	18.18	18.10	23.92	23.92	18.75	18.10	23.92	23.92
8	21.12	20.69	26.15	26.65	22.20	20.76	26.15	26.65
7	25.00	24.50	28.52	28.95	25.50	24.28	28.52	29.02
6	28.59	26.94	31.90	31.90	29.24	28.23	31.82	31.90
5	32.40	30.75	35.13	34.70	33.05	31.61	35.13	34.70
4	35.70	34.77	38.58	38.43	36.85	35.56	38.58	38.43
3	40.01	38.51	42.17	41.52	41.24	38.43	42.17	41.52
2	45.19	42.39	45.11	44.83	45.76	42.82	45.11	44.83
1	49.14	47.20	48.71	48.56	49.93	46.77	48.71	48.56
mean	7.58	8.13	9.65	9.88	7.65	8.28	9.64	9.88
sd	5.42	6.17	7.31	7.34	5.41	6.17	7.30	7.34

TABLE eA5.6 Base Rates of Premorbid (Predicted) Versus Current (Actual) WAIS−IV GAI and CPI Performance

	WAIS−IV GAI		WAIS−IV CPI	
	Actual <Predicted	**Actual >Predicted**	**Actual <Predicted**	**Actual >Predicted**
>50	–	–	0.07	–
50	–	–	0.14	–
49	–	–	0.14	–
48	–	–	0.22	0.07
47	–	–	0.22	0.14
46	–	–	0.22	0.14
45	–	–	0.22	0.14
44	–	–	0.22	0.14
43	0.07	–	0.22	0.14
42	0.14	–	0.22	0.14
41	0.14	–	0.22	0.14
40	0.14	–	0.22	0.14
39	0.14	–	0.29	0.22
38	0.14	–	0.29	0.22
37	0.14	–	0.29	0.29
36	0.14	–	0.29	0.29
35	0.14	0.07	0.36	0.29
34	0.14	0.22	0.36	0.36
33	0.14	0.22	0.43	0.43
32	0.14	0.22	0.43	0.43
31	0.14	0.22	0.57	0.57
30	0.14	0.29	0.72	0.57
29	0.14	0.29	0.86	0.72
28	0.22	0.29	0.93	0.86
27	0.22	0.36	1.01	0.93
26	0.29	0.65	1.08	1.58
25	0.43	0.72	1.44	1.87

(*Continued*)

TABLE eA5.6   (Continued)

	WAIS–IV GAI		WAIS–IV CPI	
	Actual \<Predicted	Actual \>Predicted	Actual \<Predicted	Actual \>Predicted
24	0.57	1.01	1.87	2.59
23	0.86	1.29	2.51	3.16
22	1.08	1.44	3.23	3.81
21	1.36	1.58	3.45	4.17
20	1.72	2.44	3.95	4.81
19	2.30	3.02	4.89	5.46
18	2.66	3.95	5.82	6.75
17	3.30	4.81	6.82	8.19
16	4.09	5.68	7.90	9.05
15	5.24	6.61	9.48	10.49
14	6.61	7.90	11.64	12.14
13	8.19	9.34	13.15	14.01
12	10.20	11.14	15.80	15.88
11	12.43	13.72	18.46	17.31
10	15.30	15.80	21.05	19.97
9	18.10	18.03	23.28	22.77
8	21.48	20.69	25.14	24.93
7	24.86	24.14	27.95	27.73
6	29.17	26.94	30.39	31.32
5	32.97	30.10	33.76	33.84
4	36.57	34.27	37.72	36.71
3	40.23	39.01	41.81	39.58
2	44.83	43.18	45.47	43.68
1	48.92	46.55	48.92	47.41
mean	7.67	8.07	9.32	9.61
sd	5.42	5.93	7.15	7.23

TABLE eA5.7 OPIE–4 Equations for Standard WAIS–IV Indexes

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Constant	57.84718185	82.86006918	57.42662034	52.97658443	75.28505475	51.69792843	73.20824084	48.98035805
Vocabulary	0.706570548	0.931060376	–	0.789874	1.064085785	–	1.204771105	–
Matrix Reasoning	1.38658557	–	2.006596115	1.406248	–	2.073161452	–	2.560129553
Age	− 0.204106431	− 0.376169362	–	− 0.224896406	− 0.37598877	–	− 0.607230109	–
Age^3	0.0000415057	0.0000392298	0.0000318464	0.0000441068	0.0000388958	0.0000332464	0.0000869762	0.0000386971
Age^6	–	–	–	–	–	–	− 0.0000000000410769	–
Education	–	–	–	–	–	–	–	–
Kindergarten–7th grade	− 4.213630131	− 5.891117334	− 10.46845904	–	–	− 8.02861321	− 2.539454193	–
8–10th grade	− 1.880854304	− 4.073450564	− 7.351663122	–	− 2.341280898	− 5.586813328	–	− 3.365709173
11th grade	–	− 2.830601142	− 2.781401808	–	− 2.320997222	–	–	–
1 year of College	–	–	2.899985431	–	–	3.586357509	–	–
Associates Degree or 2 years of College	–	–	2.537006071	–	–	3.746025192	–	–
3–5 years of College, no degree	–	–	4.201333866	–	–	5.160244992	–	–
Bachelor's degree	1.765273315	4.241005492	6.294217609	1.49458	–	7.089535632	1.998458146	–
Post-Bachelor's/ Master's Degree	–	2.526538833	5.960155042	–	–	6.602391605	2.525016967	–

(*Continued*)

TABLE eA5.7   (Continued)

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Post-Master's, no doctorate	—	4.743247729	6.502111716	—	—	7.285929455	4.63412855	—
Doctorate (e.g., Ph.D., M.D., J.D.)	—	—	—	—	—	7.860254705	—	—
Sex	1.568961576	2.538945816	1.38533733	3.234337	4.219688376	3.008460946	4.196941127	2.759698382
Region	—	—	—	—	—	—	—	—
Midwest	1.061002858	—	—	—	—	—	—	—
West	—	—	2.084914692	—	—	2.998010554	—	—
Ethnicity	—	—	—	—	—	—	—	—
African-American	− 5.143182795	− 7.390687749	—	− 4.46367	− 6.674924528	—	− 3.630598403	—

Note: Non-significant predictors not shown here. VC = Vocabulary raw score, MR = Matrix Reasoning raw score, Education = 1 belongs to group and 0 does not belong to group, Age = age in years, Age^3 = age in years to the third power, Age^6 = age in years to the sixth power, Sex F = 0 and M = 1, Ethnicity coded 1 = belongs to group 0 = does not belong to group and Region coded 1 = lives in that region 0 = does not live in that region.

TABLE eA5.8 OPIE−4 Equations for Prorated WAIS−IV Indexes

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Constant	65.77827122	86.63733022	62.02281403	60.14203956	79.65445374	56.74797323	76.77718804	60.63732634
Vocabulary	0.646258435	0.825479066	–	0.763136717	0.921039566	–	1.046716258	–
Matrix Reasoning	1.182068623	–	1.719384768	1.127062322	–	1.722933286	–	1.858062305
Age	− 0.197692558	− 0.355783733	–	− 0.246247784	− 0.378906405	–	− 0.600717374	–
Age^3	0.0000373292	0.0000373292	0.0000275723	0.0000416209	0.0000399793	0.0000281088	0.0000888487	0.0000287764
Age^6	–	–	–	–	–	–	− 0.0000000000442948	–
Education	–	–	–	–	–	–	–	–
Kindergarten−7th grade	− 5.753441804	− 6.680477054	− 11.56620904	–	− 4.733521198	− 9.407931683	− 4.444249384	− 6.557153576
8−10th grade	− 2.889407206	− 4.662311507	− 7.947319233	–	− 2.883418069	− 6.535667092	–	− 5.019006753
11th grade	–	− 3.186323014	− 2.809230427	–	− 2.438406715	–	–	–
1 year of College	–	–	3.53868906	–	–	3.92541925	–	–
Associates Degree or 2 years of College	–	–	3.007371787	–	–	4.064015968	–	–
3−5 years of College, no degree	–	–	4.87775878	–	–	5.546090643	–	–
Bachelor's degree	2.196080965	4.726126229	7.134143065	–	4.463242024	7.3733171	3.208850332	–
Post-Bachelor's/ Master's Degree	–	2.633221566	6.727414092	–	2.198003475	6.598084702	2.525016967	–

TABLE eA5.8 (Continued)

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Post-Master's, no doctorate	–	5.499588668	7.370474506	–	5.23822815	7.402466749	4.63412855	–
Doctorate (e.g., Ph.D., M.D., J.D.)	–	–	6.439956971	–	–	8.09916499	–	–
Sex	1.955504838	2.795447219	1.509479923	4.708926488	5.001045997	3.784565031	4.196941127	4.162137929
Region	–	–	–	–	–	–	–	–
Midwest	–	–	–	–	–	–	–	–
West	–	–	2.265782512	–	–	3.40739351	–	–
Ethnicity	–	–	–	–	–	–	–	–
African-American	− 6.408803891	− 8.310210877	–	− 6.115458508	− 7.391487317	–	− 3.630598403	–

Note: Non-significant predictors not shown here. VC = Vocabulary raw score, MR = Matrix Reasoning raw score, Education = 1 belongs to group and 0 does not belong to group, Age = age in years, Age^3 = age in years to the third power, Age^6 = age in years to the third power, Sex F = 0 and M = 1, Ethnicity coded 1 = belongs to group 0 = does not belong to group and Region coded 1 = lives in that region 0 = does not live in that region.

TABLE eA5.9 OPIE–4 Equations for Alternate WAIS–IV Indexes

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Constant	64.27139531	75.06586802	60.28421095	52.98433577	78.64044062	51.04369189	75.9756801	57.84718185
Vocabulary	0.684931318	0.912346738	–	0.692349275	0.94402663	–	1.07272322	–
Matrix Reasoning	1.161903417	–	1.993217658	1.527242984	–	1.559847741	–	1.662841936
Age	−0.19666938	−0.364561119	–	−0.191485116	−0.364206688	–	−0.619948426	–
Age^3	0.0000375598	0.0000387586	0.0000310678	0.0000424263	0.0000392871	0.0000222318	0.0000967129	0.0000216680
Age^6	–	–	–	–	–	–	−0.0000000000521641	–
Education	–	–	–	–	–	–	–	–
Kindergarten–7th grade	−5.00746818	−6.141022866	−9.915272402	–	−4.48445421	−7.438612648	−3.747832381	−3.168324826
8–10th grade	−2.7002929	−4.554772036	−7.187220217	–	−3.417483974	−5.066101842	–	–
11th grade	–	−3.278621501	−2.688551453	–	−2.638955116	–	–	–
1 year of College	–	–	2.927909919	–	–	3.526193061	–	–
Associates Degree or 2 years of College	–	–	2.373897266	–	–	3.838459717	–	–
3–5 years of College, no degree	–	–	3.958682381	–	–	5.065911428	–	–
Bachelor's degree	–	4.032301042	6.042141545	–	3.485467077	6.942608395	2.471453678	–
Post-Bachelor's/ Master's Degree	–	2.398708886	5.917533338	–	–	7.095948835	2.349123483	–

(Continued)

TABLE eA5.9 (Continued)

Independent Variable	FSIQ from VC/MR	FSIQ from VC	FSIQ from MR	GAI from VC/MR	GAI from VC	GAI from MR	VCI	PRI
Post-Master's, no doctorate	−	4.610841764	6.332112109	−	4.781638986	6.830307245	4.268345741	−
Doctorate (e.g., Ph.D.,M.D., J.D.)	−	−	−	−	−	8.504858819	−	−
Sex	1.956695952	2.417471498	−	3.977699046	4.605752908	3.135068623	3.581196698	2.966778666
Region	−	−	−	−	−	−	−	−
West	−	−	1.745208204	−	−	3.116614317	−	−
Ethnicity	−	−	−	−	−	−	−	−
African-American	−5.91621892	−	−	−4.90512977	−7.188042719	−	−3.260949576	−
White	−	−	−	−	−	5.932187492	−	5.398675635

Note: Non-significant predictors not shown here. VC = Vocabulary raw score, MR = Matrix Reasoning raw score, Education = 1 belongs to group and 0 does not belong to group, Age = age in years, Age^3 = age in years to the third power, Age^6 = age in years to the third power, Sex F = 0 and M = 1, Ethnicity coded 1 = belongs to group 0 = does not belong to group and Region coded 1 = lives in that region 0 = does not live in that region.

TABLE eA5.10　Critical Values Required for Statistical Significance OPIE−4
Predicted Premorbid Versus Current WAIS−IV Indexes

	Sig. Level	Standard FSIQ	Prorated FSIQ	Alternate FSIQ	Standard GAI	Prorated GAI	Alternate GAI
Vocabulary and Matrix Reasoning Predicted Indexes							
Premorbid	0.05	6.9	7.15	6.91	5.88	7.94	7.75
Versus Current	0.01	9.01	9.66	9.61	7.68	10.73	10.47
Vocabulary Only Predicted Indexes							
Premorbid	0.05	8	7.48	7.48	6.93	8.35	8.06
Versus Current	0.01	10.45	10.11	10.11	9.05	11.28	10.89
Matrix Reasoning Only Predicted Indexes							
Premorbid	0.05	9.63	9.42	9.42	6.47	9.93	9.76
Versus Current	0.01	12.58	12.73	12.73	8.45	13.42	13.18
Vocabulary or Matrix Reasoning Only Predicted Indexes							
Premorbid	0.05	6.76	9.08	9.08	7.96	10.02	10.11
Versus Current	0.01	8.83	12.26	12.26	10.46	13.54	13.66

TABLE eA5.11   Base Rates of Actual Versus Predicted Standard WAIS−IV FSIQ, GAI, VCI, and PRI

	FSIQ from VC/MR		FSIQ from VC		FSIQ from MR		GAI from VC/MR		GAI from VC		GAI from MR		VCI from VC		PRI from MR	
	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred
35	–	–	–	0.20	–	–	–	–	–	–	–	–	–	–	–	–
34	–	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	–
33	–	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.10
32	–	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.29
31	–	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.29
30	–	–	–	0.29	–	0.10	–	–	–	–	–	0.10	–	–	–	0.29
29	–	–	–	0.29	–	0.29	–	–	0.10	–	–	0.29	–	–	–	0.29
28	–	–	–	0.29	–	0.29	–	–	0.20	0.20	–	0.29	–	–	–	0.29
27	–	–	0.10	0.29	–	0.29	–	–	0.29	0.29	–	0.39	–	–	–	0.29
26	–	0.10	0.29	0.29	–	0.39	–	–	0.29	0.29	–	0.59	–	–	–	0.29
25	–	0.20	0.49	0.29	0.20	0.49	–	–	0.39	0.29	–	0.79	–	0.10	–	0.69
24	–	0.20	0.59	0.49	0.29	0.69	–	–	0.79	0.29	0.10	0.98	–	0.20	–	0.69
23	–	0.29	0.59	0.79	0.49	0.98	–	0.10	0.79	0.39	0.29	0.98	–	0.20	–	0.69
22	–	0.29	0.79	0.88	0.59	1.28	–	0.20	0.79	0.49	0.39	1.38	–	0.20	0.10	0.98
21	0.10	0.29	0.79	1.08	0.98	1.47	–	0.20	0.88	0.69	0.49	1.67	–	0.20	0.20	1.28
20	0.20	0.29	1.18	1.96	1.18	2.06	–	0.29	1.28	0.88	0.88	2.06	–	0.29	0.29	1.67
19	0.20	0.39	1.57	1.96	1.57	2.85	0.10	0.29	1.38	1.38	1.08	2.36	0.10	0.29	0.59	1.67

18	0.49	0.39	2.06	2.55	2.16	3.63	0.29	0.39	1.96	1.77	1.38	3.05	0.39	0.29	0.79	2.36
17	0.69	0.88	3.05	3.34	3.24	4.42	0.39	0.39	2.26	2.36	1.96	3.24	0.39	0.39	1.47	3.54
16	0.98	1.57	4.03	3.93	4.62	5.11	0.69	0.69	3.05	3.44	2.85	4.13	0.39	0.88	2.75	4.52
15	1.87	1.87	4.81	4.91	5.21	6.39	1.08	1.28	3.83	4.22	3.63	5.21	0.39	1.28	3.63	5.89
14	2.75	2.95	5.70	5.80	6.58	7.56	1.38	1.57	4.22	5.11	4.72	6.68	0.88	1.77	4.52	7.47
13	3.54	3.63	6.78	7.66	7.86	8.74	1.87	2.26	5.70	6.78	6.97	8.35	1.67	2.26	5.80	8.64
12	4.72	4.72	8.74	9.33	10.12	10.61	2.55	2.85	7.56	8.45	9.63	9.92	2.36	3.05	7.96	9.72
11	5.89	5.80	10.90	10.90	12.38	12.48	4.03	4.03	9.43	10.22	11.69	12.08	3.24	4.52	10.31	11.89
10	7.66	7.96	13.06	12.38	14.54	14.34	5.30	5.40	11.20	12.38	13.75	13.85	5.21	6.19	12.48	14.05
9	10.31	9.92	16.40	14.83	18.07	16.99	7.07	6.88	13.46	15.23	17.88	17.19	6.19	7.37	15.42	16.31
8	13.46	13.56	18.57	17.98	20.73	19.94	9.72	9.63	16.31	18.27	21.12	20.63	9.04	9.43	19.25	19.35
7	16.80	16.70	21.02	21.51	24.56	22.79	13.26	13.06	20.43	21.81	24.56	22.89	12.77	12.67	23.08	22.99
6	20.92	19.94	25.15	24.95	28.49	26.52	17.19	18.07	24.07	24.75	28.29	26.33	16.11	16.11	28.19	26.33
5	25.25	25.25	28.98	29.47	31.63	30.16	22.20	22.99	28.19	28.00	32.81	30.26	21.12	20.92	32.71	29.57
4	30.55	30.94	33.10	33.69	34.77	33.79	27.41	27.80	32.91	32.22	37.52	34.68	26.23	26.52	37.13	33.50
3	36.84	36.64	37.82	37.92	38.31	37.33	33.60	33.40	37.72	36.44	40.96	38.70	32.71	31.34	41.94	36.74
2	41.45	41.45	43.81	42.83	44.30	42.83	40.28	39.39	43.03	40.28	44.89	41.75	40.67	37.23	46.17	39.59
1	47.54	46.17	48.13	46.37	49.31	45.97	47.45	45.28	47.64	45.38	49.02	46.07	48.43	44.50	49.71	44.40
mean	5.72	5.89	7.30	7.03	7.34	7.84	4.97	5.21	6.70	7.10	7.28	7.74	4.70	5.12	6.93	7.75
sd	3.96	4.09	5.35	5.17	5.19	5.70	3.53	3.64	4.96	5.05	4.67	5.58	3.33	3.81	4.36	5.46

TABLE eA5.12 Base Rates of Actual versus Predicted Prorated WAIS−IV FSIQ, GAI, VCI, and PRI

	FSIQ from VC/MR		FSIQ from VC		FSIQ from MR		GAI from VC/MR		GAI from VC		GAI from MR		VCI from VC		PRI from MR	
	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred
>40	–	–	–	–	–	–	–	–	–	–	–	0.10	–	–	–	0.10
40	–	–	–	–	–	–	–	–	–	–	–	0.39	–	–	–	0.15
39	–	–	–	–	–	–	–	–	–	–	–	0.39	–	–	–	0.15
38	–	–	–	–	–	–	–	0.10	–	–	–	0.39	–	–	–	0.20
37	–	–	0.10	–	–	–	–	0.20	–	–	–	0.39	–	–	–	0.20
36	–	–	0.20	–	–	–	–	0.20	–	–	–	0.39	–	–	–	0.20
35	–	–	0.49	–	–	–	–	0.20	0.10	–	–	0.39	–	0.10	–	0.25
34	–	–	0.49	–	–	–	–	0.20	0.20	–	–	0.39	–	0.20	0.05	0.25
33	–	–	0.49	–	–	0.10	–	0.20	0.20	–	–	0.49	–	0.20	0.15	0.25
32	–	–	0.49	–	–	0.20	–	0.29	0.20	–	–	0.59	–	0.20	0.15	0.25
31	–	0.10	0.49	–	–	0.20	–	0.29	0.29	0.20	–	0.69	–	0.20	0.25	0.30
30	–	0.20	0.49	0.10	–	0.29	–	0.29	0.29	0.29	–	0.79	–	0.20	0.30	0.54
29	–	0.20	0.49	0.20	–	0.39	–	0.39	0.29	0.29	–	0.79	–	0.29	0.30	0.79
28	–	0.20	0.49	0.39	–	0.49	–	0.39	0.29	0.29	0.10	0.98	–	0.49	0.34	1.03
27	–	0.29	0.49	0.49	0.29	0.69	0.10	0.39	0.39	0.29	0.20	1.08	0.10	0.49	0.44	1.23
26	–	0.29	0.69	0.59	0.39	0.79	0.20	0.39	0.59	0.39	0.39	1.47	0.49	0.59	0.64	1.53
25	0.10	0.29	0.79	0.59	0.39	1.18	0.20	0.39	0.59	0.39	0.88	1.77	0.49	0.69	0.98	1.82

24	0.20	0.29	0.98	1.08	0.49	1.38	0.20	0.88	0.88	0.59	0.88	2.26	0.49	0.69	1.13	2.41
23	0.20	0.39	1.08	1.08	0.98	1.77	0.39	0.88	0.88	0.79	1.38	2.55	0.49	0.88	1.53	2.85
22	0.49	0.59	1.08	1.08	1.18	2.16	0.59	0.88	1.08	0.79	1.38	2.85	0.49	1.18	2.02	3.30
21	0.59	0.88	1.77	1.47	1.57	2.65	0.69	1.28	1.47	1.38	1.77	3.24	0.59	1.18	2.76	3.89
20	0.98	1.47	2.16	1.96	2.16	3.44	0.98	1.47	1.96	1.77	2.16	3.93	0.88	1.67	3.30	5.07
19	1.38	1.96	2.95	2.65	2.65	4.03	1.67	1.96	2.36	1.87	2.55	4.81	1.18	2.26	3.89	6.25
18	1.87	2.36	3.73	3.73	4.32	4.52	2.16	2.75	3.14	2.55	3.24	5.50	1.87	2.85	5.07	6.89
17	2.95	2.65	4.62	4.13	5.01	5.40	3.14	3.14	3.54	3.63	4.52	6.19	2.46	3.34	6.40	7.73
16	3.54	3.34	5.70	5.11	6.19	6.78	3.93	3.63	4.52	4.72	6.29	7.27	3.14	4.13	7.63	8.56
15	4.32	3.73	6.68	5.99	6.78	8.06	4.72	4.52	5.30	5.89	7.47	8.55	4.13	4.52	8.91	9.69
14	5.11	5.01	7.96	7.07	8.06	9.53	5.80	5.21	6.29	6.97	9.43	10.31	5.11	5.21	10.68	11.12
13	6.39	6.29	9.72	9.23	9.92	11.10	6.97	6.48	7.56	8.35	11.69	12.18	6.68	6.48	12.16	12.84
12	8.15	7.76	11.30	10.81	11.98	12.57	8.55	7.96	9.14	10.22	12.97	13.16	7.96	7.56	14.37	14.71
11	9.82	9.92	12.77	13.06	13.95	14.24	10.51	10.22	10.81	12.77	16.11	15.72	10.12	9.72	16.98	16.88
10	13.06	12.57	14.83	15.52	17.39	16.80	13.06	12.67	12.97	14.83	18.96	18.76	12.38	11.59	20.13	19.29
9	15.91	15.32	17.09	18.27	20.04	19.16	15.91	15.32	15.82	17.68	22.79	20.83	14.73	13.75	23.43	21.65
8	19.06	18.57	20.73	20.33	23.58	22.20	19.45	19.06	19.16	20.33	25.25	22.79	17.58	17.68	26.48	24.51
7	22.30	21.51	23.87	24.46	26.92	24.85	22.79	21.91	22.69	23.08	28.98	25.93	20.92	21.02	29.33	27.81
6	24.95	26.03	27.41	27.21	30.16	28.09	26.03	25.93	25.93	25.74	31.93	29.17	25.44	24.75	32.09	30.56
5	30.55	30.65	31.04	30.75	33.60	31.14	30.75	29.17	30.06	28.49	35.36	33.30	29.76	28.98	34.84	33.76

TABLE eA5.12 (Continued)

	FSIQ from VC/MR		FSIQ from VC		FSIQ from MR		GAI from VC/MR		GAI from VC		GAI from MR		VCI from VC		PRI from MR	
	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred
4	34.38	33.99	34.48	34.18	36.44	35.07	35.66	33.50	34.38	33.60	39.19	35.56	33.40	31.83	38.29	37.16
3	38.11	38.21	37.72	39.69	39.98	38.80	39.49	38.02	38.90	37.52	43.03	38.70	37.92	35.85	41.93	41.68
2	43.22	42.73	42.93	44.89	44.60	43.03	43.81	41.94	43.81	41.06	45.48	42.04	43.22	41.36	45.28	44.69
1	48.82	46.86	47.25	48.72	49.71	47.25	48.82	46.17	48.13	46.56	48.82	45.58	47.94	46.46	48.08	48.33
mean	6.89	7.13	7.91	7.69	8.02	8.43	7.09	7.30	7.34	7.58	8.65	9.23	6.85	7.05	8.68	9.16
sd	4.92	5.03	5.99	5.70	5.69	6.36	5.01	5.37	5.56	5.59	5.55	6.92	4.86	5.51	5.84	7.12

TABLE eA5.13 Base Rates of Actual Versus Predicted Alternate WAIS−IV FSIQ, GAI, VCI, and PRI

	FSIQ from VC/MR		FSIQ from VC		FSIQ from MR		GAI from VC/MR		GAI from VC		GAI from MR		VCI from VC		PRI from MR	
	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred
>40	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.10
40	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.20
39	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.29
38	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.29
37	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.49
36	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.49
35	–	–	0.20	–	–	–	–	–	–	–	–	–	–	–	0.10	0.69
34	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.20	0.98
33	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.20	0.98
32	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	0.20	0.98
31	–	–	0.49	0.10	–	–	–	–	–	–	–	0.10	–	–	0.20	1.28
30	–	–	0.49	0.29	–	0.10	–	–	0.10	–	0.10	0.20	–	–	0.49	1.57
29	–	–	0.49	0.39	–	0.20	–	–	0.20	–	0.29	0.29	–	–	0.49	1.87
28	–	0.10	0.49	0.49	–	0.20	–	–	0.20	–	0.29	0.29	–	–	0.49	2.65
27	–	0.20	0.49	0.69	–	0.49	–	–	0.29	–	0.29	0.29	–	0.20	0.88	2.65
26	0.10	0.29	0.49	0.69	–	0.49	–	–	0.29	0.10	0.29	0.39	–	0.29	0.88	2.95

(Continued)

TABLE eA5.13   (Continued)

	FSIQ from VC/MR		FSIQ from VC		FSIQ from MR		GAI from VC/MR		GAI from VC		GAI from MR		VCI from VC		PRI from MR	
	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred	Act <Pred	Act >Pred
25	0.29	0.29	0.59	0.79	0.10	0.49	—	0.10	0.39	0.20	0.29	0.49	—	0.39	1.18	3.54
24	0.29	0.29	0.59	0.98	0.20	0.79	—	0.20	0.39	0.59	0.59	0.59	—	0.49	1.38	4.62
23	0.79	0.39	1.08	1.18	0.39	0.88	—	0.20	0.69	0.59	0.59	0.79	—	0.79	2.06	5.30
22	0.79	0.59	1.77	1.28	0.79	1.47	—	0.29	0.69	0.59	0.59	1.57	—	1.08	2.65	6.09
21	0.79	0.88	2.16	1.38	1.28	1.77	—	0.29	0.69	0.59	0.69	2.06	0.10	1.38	3.54	6.88
20	0.79	0.98	2.36	1.67	1.67	2.36	0.10	0.29	0.98	0.79	0.88	2.36	0.39	1.47	4.13	7.56
19	0.98	1.38	2.85	1.96	2.06	2.85	0.20	0.29	1.28	1.08	1.08	3.14	0.59	1.96	5.21	8.35
18	1.38	1.77	3.44	2.36	2.85	3.34	0.20	0.49	1.77	1.57	1.47	3.54	1.18	2.26	5.80	8.84
17	1.96	2.06	3.93	2.95	3.14	4.13	0.39	0.79	2.26	2.26	1.67	4.32	1.67	2.55	7.07	9.72
16	2.55	2.75	4.62	4.03	4.91	5.30	0.69	0.88	2.95	3.14	2.26	5.01	2.36	2.85	8.94	10.90
15	3.14	3.44	5.80	5.21	5.89	5.99	0.79	1.28	3.73	3.73	3.44	5.99	2.95	3.44	10.41	12.28
14	4.13	4.13	7.56	6.88	7.86	7.66	1.67	1.77	4.81	5.01	4.81	6.58	3.93	4.13	12.28	13.16
13	5.60	5.40	9.14	8.55	9.43	8.94	2.36	2.75	5.80	6.48	6.39	8.15	5.21	5.89	14.64	14.93
12	7.47	6.97	11.20	10.31	11.00	10.71	2.95	4.03	7.07	8.06	8.45	9.53	6.19	6.88	17.09	16.60
11	9.43	9.04	13.95	13.36	12.77	13.26	3.83	5.80	8.45	10.41	10.90	12.18	7.96	8.15	19.35	18.57
10	11.69	11.49	16.01	15.62	14.54	14.73	5.01	7.96	10.41	13.16	13.65	14.34	10.02	10.61	22.99	20.63
9	14.44	14.34	18.07	18.17	17.29	16.90	7.37	10.02	13.36	15.62	16.50	16.99	12.97	13.26	25.25	23.08

8	17.58	17.19	20.63	20.14	19.84	19.74	10.02	12.48	16.31	18.57	18.66	19.16	15.52	16.31	29.17	26.23
7	21.71	21.12	23.48	23.38	24.26	23.87	13.16	15.52	20.43	21.12	22.59	22.79	19.06	19.16	31.83	28.68
6	24.95	25.25	26.92	27.31	27.50	26.82	17.29	18.66	23.18	24.56	26.92	25.54	23.08	23.28	36.54	30.75
5	28.98	29.67	29.17	31.14	31.14	30.06	22.89	22.89	27.80	28.19	31.04	29.17	27.11	27.90	39.29	33.20
4	33.10	32.32	33.60	35.27	34.28	33.79	28.88	27.80	31.73	32.42	35.17	33.60	32.42	31.83	41.85	36.05
3	37.52	36.74	38.31	39.69	39.49	38.11	34.38	33.10	37.33	36.64	39.78	37.13	38.51	36.15	44.30	38.80
2	42.44	42.83	42.44	44.60	43.52	42.73	40.37	39.59	43.91	41.94	44.11	41.45	44.40	39.39	47.74	41.65
1	46.95	47.94	47.05	49.02	47.74	46.76	47.74	45.97	48.33	46.66	49.12	46.46	50.10	45.09	52.06	44.60
mean	6.78	6.67	7.85	7.54	7.62	7.79	5.03	5.50	6.52	6.92	6.95	7.63	6.10	6.82	9.40	10.96
sd	4.66	4.86	5.94	5.59	5.35	5.72	3.54	4.03	4.90	4.89	4.79	5.79	4.40	5.13	6.32	8.40