

GAI Equivalents of Sums of Scaled Scores

Sum of Scaled Scores	GAI	Percentile Rank	Confidence Level		Sum of Scaled Scores	GAI	Percentile Rank	Confidence Level	
			90%	95%				90%	95%
6	40	<0.1	38-47	37-48	60	100	50	95-105	94-106
7	40	<0.1	38-47	37-48	61	101	53	96-106	95-107
8	40	<0.1	38-47	37-48	62	102	55	97-107	96-108
9	40	<0.1	38-47	37-48	63	103	58	98-108	97-109
10	40	<0.1	38-47	37-48	64	104	61	99-109	98-109
11	40	<0.1	38-47	37-48	65	105	63	100-110	99-110
12	41	<0.1	39-48	38-49	66	106	66	101-110	100-111
13	42	<0.1	40-49	39-50	67	107	68	102-111	101-112
14	43	<0.1	41-50	40-51	68	108	70	103-112	102-113
15	44	<0.1	42-51	41-52	69	110	75	105-114	104-115
16	45	<0.1	42-52	42-53	70	111	77	106-115	105-116
17	46	<0.1	43-53	43-54	71	112	79	107-116	106-117
18	47	<0.1	44-54	43-55	72	113	81	108-117	107-118
19	49	<0.1	46-56	45-57	73	115	84	110-119	109-120
20	51	0.1	48-58	47-59	74	116	86	111-120	110-121
21	52	0.1	49-59	48-60	75	117	87	112-121	111-122
22	53	0.1	50-60	49-61	76	119	90	114-123	113-124
23	55	0.1	52-62	51-62	77	120	91	114-124	114-125
24	57	0.2	54-63	53-64	78	121	92	115-125	115-126
25	58	0.3	55-64	54-65	79	122	93	116-126	115-127
26	59	0.3	56-65	55-66	80	123	94	117-127	116-128
27	61	0.5	58-67	57-68	81	124	95	118-128	117-129
28	63	1	60-69	59-70	82	126	96	120-130	119-131
29	64	1	61-70	60-71	83	127	96	121-131	120-132
30	65	1	62-71	61-72	84	128	97	122-132	121-133
31	67	1	64-73	63-74	85	129	97	123-133	122-133
32	69	2	66-75	65-76	86	130	98	124-134	123-134
33	70	2	66-76	66-77	87	132	98	126-135	125-136
34	71	3	67-77	67-78	88	133	99	127-136	126-137
35	73	4	69-79	68-80	89	135	99	129-138	128-139
36	74	4	70-80	69-81	90	136	99	130-139	129-140
37	75	5	71-81	70-82	91	138	99	132-141	131-142
38	77	6	73-83	72-84	92	139	99.5	133-142	132-143
39	78	7	74-84	73-85	93	140	99.6	134-143	133-144
40	79	8	75-85	74-85	94	142	99.7	136-145	135-146
41	81	10	77-86	76-87	95	143	99.8	137-146	136-147
42	82	12	78-87	77-88	96	144	99.8	138-147	137-148
43	83	13	79-88	78-89	97	146	99.9	139-149	139-150
44	84	14	80-89	79-90	98	147	99.9	140-150	139-151
45	85	16	81-90	80-91	99	148	99.9	141-151	140-152
46	86	18	82-91	81-92	100	150	>99.9	143-153	142-154
47	87	19	83-92	82-93	101	151	>99.9	144-154	143-155
48	88	21	84-93	83-94	102	153	>99.9	146-156	145-157
49	89	23	85-94	84-95	103	154	>99.9	147-157	146-157
50	90	25	86-95	85-96	104	155	>99.9	148-158	147-158
51	91	27	87-96	86-97	105	156	>99.9	149-158	148-159
52	92	30	88-97	87-98	106	157	>99.9	150-159	149-160
53	93	32	89-98	88-99	107	158	>99.9	151-160	150-161
54	94	34	90-99	89-100	108	159	>99.9	152-161	151-162
55	95	37	90-100	90-101	109	160	>99.9	153-162	152-163
56	96	39	91-101	91-102	110	160	>99.9	153-162	152-163
57	97	42	92-102	91-103	111	160	>99.9	153-162	152-163
58	98	45	93-103	92-104	112	160	>99.9	153-162	152-163
59	99	47	94-104	93-105	113	160	>99.9	153-162	152-163
					114	160	>99.9	153-162	152-163

WIAT-II Subtest and Composite Scores Predicted from WISC-IV GAI Scores

WIAT-II															
WISC-IV GAI	Subtest Scores									Composite Scores					WISC-IV GAI
	WR	NO	RC	SP	PD	MR	WE	LC	OE	RD	MA	WL	OL	TA	
40	56	60	55	59	64	54	60	52	66	54	55	57	54	49	40
41	56	60	56	59	65	55	61	53	67	55	56	58	55	50	41
42	57	61	57	60	65	56	62	54	68	55	57	58	55	51	42
43	58	62	57	61	66	57	62	54	68	56	57	59	56	52	43
44	59	62	58	61	66	57	63	55	69	57	58	60	57	52	44
45	59	63	59	62	67	58	64	56	69	58	59	60	58	53	45
46	60	64	60	63	68	59	64	57	70	58	60	61	58	54	46
47	61	64	60	63	68	60	65	58	70	59	60	62	59	55	47
48	62	65	61	64	69	60	66	58	71	60	61	63	60	56	48
49	62	66	62	65	69	61	66	59	71	61	62	63	61	57	49
50	63	67	63	66	70	62	67	60	72	62	63	64	62	58	50
51	64	67	63	66	71	63	68	61	73	62	63	65	62	58	51
52	64	68	64	67	71	64	68	62	73	63	64	65	63	59	52
53	65	69	65	68	72	64	69	62	74	64	65	66	64	60	53
54	66	69	66	68	72	65	70	63	74	65	66	67	65	61	54
55	67	70	66	69	73	66	70	64	75	65	66	68	65	62	55
56	67	71	67	70	74	67	71	65	75	66	67	68	66	63	56
57	68	71	68	70	74	67	72	66	76	67	68	69	67	63	57
58	69	72	69	71	75	68	72	66	76	68	69	70	68	64	58
59	70	73	69	72	75	69	73	67	77	68	69	70	68	65	59
60	70	73	70	72	76	70	74	68	78	69	70	71	69	66	60
61	71	74	71	73	77	70	74	69	78	70	71	72	70	67	61
62	72	75	72	74	77	71	75	70	79	71	72	73	71	68	62
63	73	75	72	74	78	72	76	70	79	72	72	73	72	69	63
64	73	76	73	75	78	73	76	71	80	72	73	74	72	69	64
65	74	77	74	76	79	73	77	72	80	73	74	75	73	70	65
66	75	77	75	77	80	74	78	73	81	74	75	76	74	71	66
67	76	78	75	77	80	75	78	74	82	75	75	76	75	72	67
68	76	79	76	78	81	76	79	74	82	75	76	77	75	73	68
69	77	79	77	79	81	76	80	75	83	76	77	78	76	74	69
70	78	80	78	79	82	77	80	76	83	77	78	78	77	75	70
71	79	81	78	80	83	78	81	77	84	78	78	79	78	75	71
72	79	81	79	81	83	79	82	78	84	78	79	80	78	76	72
73	80	82	80	81	84	79	82	78	85	79	80	81	79	77	73
74	81	83	81	82	84	80	83	79	85	80	81	81	80	78	74
75	82	83	81	83	85	81	84	80	86	81	81	82	81	79	75
76	82	84	82	83	86	82	84	81	87	82	82	83	82	80	76
77	83	85	83	84	86	83	85	82	87	82	83	83	82	80	77
78	84	85	84	85	87	83	85	82	88	83	84	84	83	81	78
79	84	86	84	86	87	84	86	83	88	84	84	85	84	82	79
80	85	87	85	86	88	85	87	84	89	85	85	86	85	83	80
81	86	87	86	87	89	86	87	85	89	85	86	86	85	84	81
82	87	88	87	88	89	86	88	86	90	86	87	87	86	85	82
83	87	89	87	88	90	87	89	86	90	87	87	88	87	86	83
84	88	89	88	89	90	88	89	87	91	88	88	88	88	86	84
85	89	90	89	90	91	89	90	88	92	88	89	89	88	87	85
86	90	91	90	90	92	89	91	89	92	89	90	90	89	88	86
87	90	91	90	91	92	90	91	90	93	90	90	91	90	89	87
88	91	92	91	92	93	91	92	90	93	91	91	91	91	90	88
89	92	93	92	92	93	92	93	91	94	92	92	92	92	91	89
90	93	93	93	93	94	92	93	92	94	92	93	93	92	92	90
91	93	94	93	94	95	93	94	93	95	93	93	94	93	92	91
92	94	95	94	94	95	94	95	94	96	94	94	94	94	93	92
93	95	95	95	95	96	95	95	94	96	95	95	95	95	94	93
94	96	96	96	96	96	95	96	95	97	95	96	96	95	95	94
95	96	97	96	97	97	96	97	96	97	96	96	96	96	96	95
96	97	97	97	97	98	97	97	97	98	97	97	97	97	97	96
97	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97
98	99	99	99	99	99	98	99	98	99	98	99	99	98	98	98
99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

WR = Word Reading PD = Pseudoword Decoding OE = Oral Expression OL = Oral Language
 NO = Numerical Operations MR = Mathematics Reasoning RD = Reading TA = Total Achievement
 RC = Reading Comp WE = Written Expression MA = Mathematics
 SP = Spelling LC = Listening Comp WL = Written Language

WIAT-II Subtest and Composite Scores Predicted from WISC-IV GAI Scores (Continued).

WIAT-II															
WISC-IV GAI	Subtest Scores									Composite Scores					WISC-IV GAI
	WR	NO	RC	SP	PD	MR	WE	LC	OE	RD	MA	WL	OL	TA	
101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
102	101	101	102	101	101	102	101	102	101	102	102	101	102	102	102
103	102	102	102	102	102	102	102	102	102	102	102	102	102	103	103
104	103	103	103	103	102	103	103	103	102	103	103	103	103	103	104
105	104	103	104	103	103	104	103	104	103	104	104	104	104	104	105
106	104	104	105	104	104	105	104	105	103	105	105	104	105	105	106
107	105	105	105	105	104	105	105	106	104	105	105	105	105	106	107
108	106	105	106	106	105	106	105	106	104	106	106	106	106	107	108
109	107	106	107	106	105	107	106	107	105	107	107	106	107	107	109
110	107	107	108	107	106	108	107	108	106	108	108	107	108	109	110
111	108	107	108	108	107	108	107	109	106	108	108	108	108	109	111
112	109	108	109	108	107	109	108	110	107	109	109	109	109	110	112
113	110	109	110	109	108	110	109	110	107	110	110	109	110	111	113
114	110	109	111	110	108	111	109	111	108	111	111	110	111	112	114
115	111	110	111	110	109	111	110	112	108	112	111	111	112	113	115
116	112	111	112	111	110	112	111	113	109	112	112	112	112	114	116
117	113	111	113	112	110	113	111	114	110	113	113	112	113	114	117
118	113	112	114	112	111	114	112	114	110	114	114	113	114	115	118
119	114	113	114	113	111	114	113	115	111	115	114	114	115	116	119
120	115	113	115	114	112	115	113	116	111	115	115	114	115	117	120
121	116	114	116	114	113	116	114	117	112	116	116	115	116	118	121
122	116	115	117	115	113	117	115	118	112	117	117	116	117	119	122
123	117	115	117	116	114	117	115	118	113	118	117	117	118	120	123
124	118	116	118	117	114	118	116	119	113	118	118	117	118	120	124
125	119	117	119	117	115	119	117	120	114	119	119	118	119	121	125
126	119	117	120	118	116	120	117	121	115	120	120	119	120	122	126
127	120	118	120	119	116	121	118	122	115	121	120	119	121	123	127
128	121	119	121	119	117	121	118	122	116	122	121	120	122	124	128
129	121	119	122	120	117	122	119	123	116	122	122	121	122	125	129
130	122	120	123	121	118	123	120	124	117	123	123	122	123	126	130
131	123	121	123	121	119	124	120	125	117	124	123	122	124	126	131
132	124	121	124	122	119	124	121	126	118	125	124	123	125	127	132
133	124	122	125	123	120	125	122	126	118	125	125	124	125	128	133
134	125	123	126	123	120	126	122	127	119	126	126	124	126	129	134
135	126	123	126	124	121	127	123	128	120	127	126	125	127	130	135
136	127	124	127	125	122	127	124	129	120	128	127	126	128	131	136
137	127	125	128	126	122	128	124	130	121	128	128	127	128	131	137
138	128	125	129	126	123	129	125	130	121	129	129	127	129	132	138
139	129	126	129	127	123	130	126	131	122	130	129	128	130	133	139
140	130	127	130	128	124	130	126	132	122	131	130	129	131	134	140
141	130	127	131	128	125	131	127	133	123	132	131	130	132	135	141
142	131	128	132	129	125	132	128	134	124	132	132	130	132	136	142
143	132	129	132	130	126	133	128	134	124	133	132	131	133	137	143
144	133	129	133	130	126	133	129	135	125	134	133	132	134	137	144
145	133	130	134	131	127	134	130	136	125	135	134	132	135	138	145
146	134	131	135	132	128	135	130	137	126	135	135	133	135	139	146
147	135	131	135	132	128	136	131	138	126	136	135	134	136	140	147
148	136	132	136	133	129	136	132	138	127	137	136	135	137	141	148
149	136	133	137	134	129	137	132	139	127	138	137	135	138	142	149
150	137	134	138	135	130	138	133	140	128	139	138	136	139	143	150
151	138	134	138	135	131	139	134	141	129	139	138	137	139	143	151
152	138	135	139	136	131	140	134	142	129	140	139	137	140	144	152
153	139	136	140	137	132	140	135	142	130	141	140	138	141	145	153
154	140	136	141	137	132	141	136	143	130	142	141	139	142	146	154
155	141	137	141	138	133	142	136	144	131	142	141	140	142	147	155
156	141	138	142	139	134	143	137	145	131	143	142	140	143	148	156
157	142	138	143	139	134	143	138	146	132	144	143	141	144	148	157
158	143	139	144	140	135	144	138	146	132	145	144	142	145	149	158
159	144	140	144	141	135	145	139	147	133	145	144	142	145	150	159
160	144	140	145	141	136	146	140	148	134	146	145	143	146	151	160

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Differences Between WISC-IV GAI Scores and WIAT-II Subtest and Composite Scores Required for Statistical Significance (Critical Values): Simple-Difference and Predicted-Difference Methods by Age-Band.

Subtest/Index	Significance Level	Ages 6-11		Ages 12-16	
		Simple-Difference	Predicted-Difference	Simple-Difference	Predicted-Difference
		GAI	GAI	GAI	GAI
Word Reading	.05	7.20	4.87	8.32	6.92
	.01	9.48	6.41	10.95	9.11
Numerical Operations	.05	13.15	12.01	9.75	8.59
	.01	17.31	15.81	12.84	11.31
Reading Comprehension	.05	8.32	6.52	8.82	7.52
	.01	10.95	8.59	11.61	9.90
Spelling	.05	9.75	8.24	9.75	8.38
	.01	12.84	10.85	12.84	11.03
Pseudoword Decoding	.05	7.78	5.42	7.78	5.91
	.01	10.24	7.14	10.24	7.78
Math Reasoning	.05	10.18	8.91	9.75	8.80
	.01	13.41	11.72	12.84	11.58
Written Expression	.05	12.47	11.18	12.47	11.59
	.01	16.42	14.72	16.42	15.25
Listening Comprehension	.05	13.79	12.77	14.10	13.41
	.01	18.15	16.81	18.56	17.65
Oral Expression	.05	11.76	10.21	12.82	11.73
	.01	15.48	13.44	16.87	15.44
Reading	.05	7.20	5.03	7.20	5.65
	.01	9.48	6.62	9.48	7.43
Math	.05	10.18	8.91	8.32	7.18
	.01	13.41	11.72	10.95	9.45
Written Language	.05	9.75	8.24	11.76	10.82
	.01	12.84	10.85	15.48	14.24
Oral Language	.05	11.00	9.66	9.75	8.72
	.01	14.48	12.72	12.84	11.48
Total	.05	7.78	6.25	7.20	5.93
	.01	10.24	8.23	9.48	7.81

Differences Required for Statistical Significance between GAI and FSIQ.

Composite Pair

Age Group	Level of Significance	GAI-FSIQ
6-11	.15	6.31
	.05	8.59
12-16	.15	5.78
	.05	7.87
All Ages	.15	5.90
	.05	8.03

Note. Differences required for statistical significance are based on the standard errors of measurement of each composite for each age group and calculated with the following formula:

$$Z \sqrt{SEM_a^2 + SEM_b^2}$$

Differences Between Predicted and Obtained WIAT-II Subtest and Composite Scores for Various Percentages of the Theoretical Normal Distribution (Base Rates): Predicted-Difference Method Using WISC-IV GAI

Subtest/Composite	Percentage of Theoretical Normal Distribution (Base Rates)								
	25	20	15	10	5	4	3	2	1
Word Reading	7	9	11	13	17	18	19	21	24
Numerical Operations	8	10	12	15	19	20	21	23	26
Reading Comprehension	7	9	11	13	17	18	19	21	24
Spelling	8	10	12	14	18	20	21	23	26
Pseudoword Decoding	9	11	13	16	20	22	23	25	28
Math Reasoning	7	9	11	13	17	18	19	21	23
Written Expression	8	10	12	15	19	20	22	24	27
Listening Comprehension	7	8	10	12	15	16	17	19	21
Oral Expression	9	11	13	16	21	22	24	26	29
Reading	7	9	10	13	16	17	19	20	23
Mathematics	7	9	11	13	17	18	19	21	24
Written Language	8	9	11	14	18	19	20	22	25
Oral Language	7	9	10	13	16	17	19	20	23
Total	6	7	9	11	13	14	15	17	19

Percentages in table represent the proportions of the sample who obtained WIAT-II scores lower than their WISC-IV GAI scores by the specified amount or more.

Differences between WISC-IV GAI and WIAT-II Subtest and Composite Scores for Various Percentages of the Theoretical Normal Distribution (Base Rates): Simple-Difference Method

Percentage of Theoretical Normal Distribution (Base Rates)									
Subtest/Composite	25	20	15	10	5	4	3	2	1
Word Reading	8	10	12	14	18	19	21	23	26
Numerical Operations	9	11	13	16	21	22	23	26	29
Reading Comprehension	8	9	11	14	18	19	20	22	25
Spelling	8	10	13	16	20	21	23	25	28
Pseudoword Decoding	10	12	14	18	23	24	26	28	32
Math Reasoning	8	9	11	14	18	19	20	22	25
Written Expression	9	11	13	16	21	22	24	26	29
Listening Comprehension	7	8	10	13	16	17	18	20	23
Oral Expression	10	12	15	19	24	25	27	29	33
Reading	7	9	11	14	17	18	20	21	24
Mathematics	8	9	11	14	18	19	20	22	25
Written Language	8	10	12	15	19	20	22	24	27
Oral Language	7	9	11	14	17	18	20	21	24
Total	6	7	9	11	14	15	16	17	20

Note: Percentages in Table represent the proportions of the sample who obtained WIAT-II scores lower than their WISC-IV GAI scores by the specified amount or more.

Cumulative Percentages of GAI-FSIQ Discrepancies (Base Rates), by Clinical Group

Amount of Discrepancy	Clinical Group						Amount of Discrepancy
	Gifted (N=59)		MR - Mild (N=56)		MR- Moderate (N=47)		
	GAI > FSIQ (-)	GAI < FSIQ (+)	GAI > FSIQ (-)	GAI < FSIQ (+)	GAI > FSIQ (-)	GAI < FSIQ (+)	
18	0	0	0	0	0	0	18
17	1.7	0	0	0	0	0	17
16	3.3	0	0	0	0	0	16
15	3.3	0	0	0	0	0	15
14	3.3	0	0	0	0	0	14
13	3.3	0	0	0	2.1	0	13
12	5	0	0	0	2.1	0	12
11	8.3	0	0	0	2.1	0	11
10	13.3	0	1.8	0	2.1	2.1	10
9	15	0	3.6	0	2.1	4.2	9
8	20	0	7.1	3.6	2.1	6.3	8
7	25	0	10.7	7.1	2.1	8.3	7
6	31.7	0	14.3	17.9	2.1	14.6	6
5	40	0	16.1	25	2.1	22.9	5
4	43.3	6.7	17.9	33.9	2.1	25	4
3	53.3	13.3	25	50	4.2	29.2	3
2	65	20	33.9	51.8	4.2	39.6	2
1	68.3	25	37.5	57.1	6.3	54.2	1
Mean	5.9	2.6	4.48	4.31	5.7	6.4	Mean
SD	3.9	1.1	2.8	1.93	3.8	2.7	SD