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WECHSLER INTELLIGENCE SCALE FOR CHILDREN®– FIFTH EDITION

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Technical and Interpretive Manual Supplement:

Special Group Validity Studies With Other Measures and Additional Tables

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WECHSLER INTELLIGENCE SCALE FOR CHILDREN®– FIFTH EDITION

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Special Group Validity Studies With Other Measures and Additional Tables

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Introduction

The *Wechsler Intelligence Scale for Children–Fifth Edition* (WISC–V) is often used with other clinical instruments in evaluations of children with various clinical diagnoses. In the early stages of WISC–V development, practitioners were asked to identify special groups of children they frequently tested with the *Wechsler Intelligence Scale for Children–Fourth Edition* (WISC–IV; Wechsler, 2003) and other measures they frequently used in conjunction with the WISC–IV. Based on this feedback, a number of the special group samples were administered additional measures in addition to the WISC–V during the scale's standardization.

This supplementary document provides the results of the special group studies with other measures that were collected as part of the WISC–V standardization but not reported in the *WISC–V Technical and Interpretative Manual* (*Tech Manual*). Results from these studies provide practitioners additional information about the construct and ecological validity of the WISC–V subtest, process, and composite scores. The *Tech Manual* provides information on the relation between intellectual and cognitive abilities as measured by the WISC–V with other tests in typically developing children. This information illustrates the cognitive skills associated with developing academic skills, psychosocial development, and behavioral regulation. However, the studies in the *Tech Manual* do not indicate how impairments in cognitive ability may impact functioning in other psychosocial domains. The studies reported in this supplement provide some information about the impact of cognitive deficits on aspects of academic performance, adaptive functioning, and behavioral issues in children with known neurodevelopmental disorders.

Eight special group studies were targeted for validity studies using the WISC–V in conjunction with other measures, including Intellectual Disability (ID, both Mild and Moderate severity), combined Specific Learning Disorder-Reading and Specific Learning Disorder-Reading and Written Expression (SLD-R/RW), Specific Learning Disorder-Mathematics (SLD-M), Attention-Deficit/Hyperactivity Disorder (ADHD), Disruptive Behavior (DB), Traumatic Brain Injury (TBI), Autism Spectrum Disorder With Accompanying Language Impairments (ASD-L), and Autism Spectrum Disorder Without Accompanying Language Impairments (ASD-NL). Table 1 provides sample sizes and demographic data for the WISC–V special group studies with other measures. The mean age of each sample is reported, as well as percentages of sample representation by sex, race/ethnicity, parent education level, and geographic region. Chapter 5 of the *Tech Manual* describes the results of studies comparing the performance of special groups in this supplement to matched control groups from the normative sample. Appendix A of the *Tech Manual* lists specific inclusion criteria for each special group.

When evaluating the correlation between two measures in clinical samples, it is important to consider the range and variability of scores in each clinical group. Correlations may diverge from those seen in a sample of typically developing children if the distribution of scores is different in the selected special group. For example, the correlation may be attenuated due to range restriction (e.g., WISC–V scores in the ID group do not cover full ability range).

Table 1 Demographic Data for the Validity Studies With Other Measures in Special Groups

	Special Group								
	ID	SLD-R/RW	SLD-M	ADHD		DB	TBI	ASD-L	ASD-NL
	Vineland–II	WIAT–III	WIAT–III	BASC–2 PRS	Brown ADD	BASC–2 PRS	BASC–2 PRS	BASC–2 PRS	BASC–2 PRS
N	93	51	25	46	47	21	18	27	30
Age									
Mean	12.1	11.3	14.1	11.3	11.4	10.6	13.0	11.5	11.3
SD	3.2	2.5	2.2	2.8	2.9	3.6	3.0	3.0	2.6
Sex									
Female	49.5	45.1	48.0	37.0	38.3	47.6	38.9	22.2	23.3
Male	50.5	54.9	52.0	63.0	61.7	52.4	61.1	77.8	76.7
Race/Ethnicity									
African American	26.9	11.8	20.0	8.7	8.5	38.1	11.1	3.7	6.7
Asian	1.1	—	—	—	—	4.8	—	—	—
Hispanic	9.7	31.4	32.0	6.5	8.5	—	27.8	22.2	13.3
White	60.2	56.9	48.0	78.3	76.6	47.6	55.6	70.4	70.0
Other	2.2	—	—	6.5	6.4	9.5	5.6	3.7	10.0
Parent Education									
≤8 years	2.2	3.9	12.0	—	—	—	—	—	—
9–11 years	26.9	13.7	12.0	2.2	2.1	14.3	5.6	—	3.3
12 years	28.0	13.7	20.0	17.4	19.1	42.9	11.1	22.2	10.0
13–15 years	22.6	39.2	24.0	45.7	42.6	33.3	44.4	25.9	36.7
≥16 years	20.4	29.4	32.0	34.8	36.2	9.5	38.9	51.9	50.0
Geographic Region									
Midwest	23.7	19.6	24.0	19.6	19.1	38.1	11.1	25.9	10.0
Northeast	4.3	2.0	4.0	8.7	6.4	14.3	—	14.8	10.0
South	61.3	52.9	44.0	58.7	61.7	33.3	44.4	40.7	40.0
West	10.8	25.5	28.0	13.0	12.8	14.3	44.4	18.5	40.0

Note. Special Group abbreviations are: ID = Intellectual Disability, SLD-R/RW = Specific Learning Disorder-Reading and Specific Learning Disorder-Reading and Written Expression, SLD-M = Specific Learning Disorder-Mathematics, ADHD = Attention-Deficit/Hyperactivity Disorder, DB = Disruptive Behavior, TBI = Traumatic Brain Injury, ASD-L = Autism Spectrum Disorder With Language Impairment, ASD-NL = Autism Spectrum Disorder Without Language Impairment. Except for sample size (*N*) and age, data are reported as percentages. Total percentage may not add up to 100 due to rounding.

Brief Descriptions of Other Measures

Children in each of the identified special group samples were administered the WISC–V, as well as portions or complete versions of the following measures: the *Vineland Adaptive Behavior Scales–Second Edition* (Vineland–II; Sparrow, Cicchetti, & Balla, 2005), the *Wechsler Individual Achievement Test–Third Edition* (WIAT–III; Pearson, 2009), the parent rating scale from the *Behavior Assessment System for Children–Second Edition* (BASC–2 PRS; Reynolds & Kamphaus, 2004), and the *Brown Attention-Deficit Disorder Scales for Children and Adolescents* (Brown ADD; Brown, 2001). The following sections provide a brief summary of each measure. Please refer to the published materials of each measure for additional information on appropriate uses, psychometric properties, and other relevant information.

Vineland–II

The Vineland–II is an individually administered measure of adaptive behavior for ages birth through 90. It measures adaptive behavior in four broad domains: Communication, Daily Living Skills, Socialization, and Motor Skills. It also includes a Maladaptive Behavior Domain to measure problem behaviors. Each domain includes a number of subdomains, but not all subdomain scores are available for ages 6–16. The Vineland–II domain scores are scaled on a metric with a mean of 100 and a standard deviation (*SD*) of 15; the subdomains and subscales are on a *v*-score metric with a mean of 15 and an *SD* of 3. Domain scores of 71–85 reflect adaptive skill levels that are moderately low, and scores of 70 or below are classified as low. Similarly, subdomain and subscale *v*-scores of 10–12 are classified as moderately low and scores of 9 or below are classified as low. The Maladaptive Behavior Index and its contributing subscales, Internalizing and Externalizing, are reverse scored; therefore, *v*-scores of 18–20 are classified as elevated and scores of 21–24 are classified as clinically significant.

The Parent/Caregiver Rating Form of the Vineland–II was administered to the caregivers of children in the ID special group study. Due to the developmental nature of the skills measured in the Motor Skills domain and subdomains, there is little variability in performance for individuals ages 7 to 50, and scores for ages 7–16 are extrapolated from the norms for 6-year-olds.

WIAT–III

The WIAT–III is an individually administered diagnostic achievement test designed for students in grades prekindergarten though 12 and adults, or ages 4:0–50:11. It includes 16 subtests designed to measure listening, speaking, reading, writing, and mathematics skills. The cognitive strengths and weaknesses of children identified as SLD-R or SLD-RW are reviewed in the *Tech Manual* as is the relationship between the WISC–V and WIAT–III in nonclinical children. The WIAT–III subtests and composite scores are scaled to a standard score metric with a mean of 100 and an *SD* of 15.

The WIAT–III was administered to children in the SLD-R/RW and SLD-M special group studies.

BASC–2 PRS

The BASC–2 PRS is used to rate a child's observable behavior and to provide insight into a child's behavior and personality, both adaptive and maladaptive. It is part of the BASC–2, a multimethod, multidimensional system for ages 2:0 to 25:11, that is used to facilitate differential diagnosis and educational classification of emotional and behavioral disorders.

The primary and content scores are scaled on a metric with a mean of 50 and an *SD* of 10, with higher scores indicating more behavioral difficulties on most scales. Scores of 60–69 indicate "at risk" and scores of 70 or more are classified as clinically significant. Although Executive

Functioning is a positive trait, higher scores on this scale indicate poorer executive functioning. For the Resiliency scale, a high score reflects positive features and low scores suggest possible problems areas.

The Parent Rating Scale of the BASC–2 was administered to the caregivers of children in the ADHD, DB, TBI, ASD-L, and ASD-NL special group studies.

Brown ADD

The Brown ADD is a rating scale that uses an executive functioning model to measure symptoms of attention-deficit disorders. The scale yields various cluster scores, including Activation, Focus, Effort, Emotion, Memory, and Action. The ADD Inattention Total and ADD Combined Total scores are also available. The primary and content scores are scaled on a metric with a mean of 50 and an *SD* of 10, with higher scores indicating more behavior difficulties on most scales. Scores of 55–59 are considered somewhat atypical. Scores of 60–69 are considered moderately atypical, and scores of 70 or more are markedly atypical and considered clinically significant. High scores on this scale indicate poor attention, and poor executive and behavioral functioning. The Parent/Caregiver Rating Form of the Brown ADD was administered to the caregivers of children in the ADHD special group study.

Results of Special Group Validity Studies With Other Measures

Intellectual Disability

Correlations With the Vineland–II

Children identified with Intellectual Disability show global deficits in cognitive functioning and in adaptive functioning (American Association of Intellectual and Developmental Disabilities, 2010; American Psychiatric Association, 2013). Chapter 5 in the *Tech Manual* presents WISC–V data for the ID-Mild and -Moderate special groups and for the relations between the WISC–V and the Vineland–II. Both special groups demonstrate lower scores on all subtest, process, and composite scores than the matched control groups. However, the Mild ID group had relative cognitive strengths on the PSI, NSI, STI, and SRI, and the Moderate ID group demonstrate relative strengths on the NSI and STI. In typically developing children, there is little association between cognitive functioning and adaptive behavior. A moderate relation between working memory and written communication skills was found. Typically developing children do not show impairments in adaptive functioning, which results in a restricted range of scores. In children with ID, it is expected that range restrictions will also attenuate the correlation between WISC–V scores and adaptive functioning.

The WISC–V and the Vineland–II were administered to parents or caregivers of 93 children with intellectual disability-mild or -moderate severity, aged 6–16, with a testing interval of 0–44 days and a mean testing interval of 4 days. Tables 2 and 3 present the means, *SD*s, and corrected correlation coefficients between the WISC–V and the Vineland–II.

Table 2 Correlations Between the WISC–V and the Vineland–II for the Intellectual Disability Group

WISC–V Subtest/ Composite Score	Vineland–II Subdomain												
	Communication			Daily Living Skills			Socialization			Motor Skills		Behavior	
	Receptive	Expressive	Written	Personal	Domestic	Community	Interpersonal Relationships	Play and Leisure Time	Coping Skills	Fine	Gross	Internalizing	Externalizing
SI	.20	.26	.15	.07	.16	.34	.15	–.01	.26	.33	.33	.03	–.08
VC	.40	.41	.36	.24	.41	.40	.21	.32	.45	.22	.36	–.18	–.24
IN	.25	.37	.35	.22	.26	.39	.24	.18	.31	.21	.49	–.07	–.16
CO	.17	.36	.27	.21	.24	.38	.18	.21	.16	.27	.45	–.21	.04
BD	.25	.27	.13	.20	.23	.27	.16	.06	.21	.49	.41	–.16	–.17
VP	.32	.38	.25	.34	.26	.38	.28	.46	.44	.53	.54	.02	–.13
MR	.23	.27	.12	.24	.16	.25	.20	.09	.26	.20	.33	–.02	–.07
FW	.34	.29	.24	.23	.37	.24	.24	.27	.32	.23	.27	–.08	–.15
PC	.36	.37	.20	.25	.21	.41	.23	.13	.27	.35	.33	–.22	–.13
AR	.32	.32	.25	.25	.18	.41	.31	.17	.32	.18	.41	–.21	–.20
DS	.40	.52	.48	.47	.31	.52	.46	.23	.43	.28	.53	–.34	–.20
PS	.14	.28	.38	.34	.18	.44	.37	.04	.21	.29	.31	.03	.04
LN	.15	.37	.45	.22	.29	.45	.16	.12	.07	.07	.37	–.10	.00
CD	.13	.08	.20	.14	.18	.09	.09	.02	.14	–.05	.17	–.13	–.07
SS	–.01	.15	.13	.06	.06	.06	–.08	–.04	.03	.07	.16	–.03	.02
CA	.19	.25	.40	.30	.27	.28	.21	.13	.24	.19	.31	–.09	–.05
VCI	.31	.35	.28	.18	.30	.39	.19	.16	.34	.31	.39	–.07	–.12
VSI	.31	.36	.22	.30	.29	.36	.25	.26	.36	.56	.54	–.08	–.15
FRI	.30	.33	.21	.27	.30	.29	.26	.17	.33	.23	.35	–.05	–.11
WMI	.26	.45	.49	.45	.24	.53	.48	.11	.33	.29	.45	–.08	.00
PSI	.07	.12	.19	.11	.14	.08	.00	.01	.08	–.06	.14	–.08	–.03
FSIQ	.32	.29	.25	.15	.26	.21	.21	.06	.32	.09	.29	–.16	–.21
QRI	.37	.35	.29	.28	.34	.37	.30	.25	.37	.25	.39	–.15	–.18
AWMI	.22	.44	.47	.33	.29	.48	.29	.18	.23	.18	.49	–.21	–.08
NVI	.26	.25	.23	.19	.25	.25	.26	.13	.29	.23	.35	–.03	–.14
GAI	.37	.44	.31	.31	.40	.45	.28	.18	.43	.44	.55	–.12	–.16
CPI	.13	.21	.31	.19	.14	.21	.14	–.06	.13	.00	.25	–.05	.01
Vineland–II													
Mean	9.7	9.7	9.5	10.7	10.4	9.7	10.1	9.1	11.9	12.7	12.6	17.7	17.0
SD	2.9	3.1	3.0	3.7	3.0	3.5	2.9	2.9	3.3	4.2	3.1	2.8	2.6
n	92	92	92	92	93	90	91	92	90	70	70	92	92

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table 2 Correlations Between the WISC–V and the Vineland–II for the Intellectual Disability Group *(continued)*

WISC–V Subtest/ Composite Score	Vineland–II Domain						WISC–V		
	Communication	Daily Living Skills	Socialization	Motor Skills	Adaptive Behavior Composite	Maladaptive Behavior Index	Mean	*SD*	*n*
SI	.24	.20	.16	.36	.20	.01	3.3	2.2	93
VC	.45	.35	.35	.29	.36	–.19	3.5	2.0	93
IN	.35	.31	.24	.35	.29	–.15	3.4	2.0	93
CO	.32	.29	.21	.37	.26	–.10	3.6	2.3	93
BD	.28	.20	.13	.51	.18	–.21	3.7	2.1	93
VP	.40	.34	.42	.58	.39	–.16	3.7	1.9	93
MR	.26	.22	.23	.29	.25	–.10	3.6	2.6	93
FW	.38	.28	.32	.26	.32	–.18	4.2	2.2	92
PC	.40	.32	.24	.39	.34	–.21	4.3	2.6	93
AR	.35	.28	.26	.29	.29	–.23	2.9	1.8	93
DS	.56	.44	.42	.43	.50	–.31	3.0	1.9	90
PS	.34	.36	.24	.34	.33	.01	4.1	2.3	92
LN	.39	.33	.16	.22	.29	–.03	3.3	2.0	89
CD	.19	.12	.09	.03	.17	–.09	4.4	2.9	84
SS	.14	.06	–.03	.13	.09	–.02	4.7	3.0	82
CA	.35	.31	.24	.25	.33	–.11	5.7	3.6	93
VCI	.37	.30	.27	.37	.30	–.09	62.9	12.3	93
VSI	.39	.31	.30	.59	.32	–.21	63.8	10.8	93
FRI	.36	.30	.30	.30	.33	–.15	65.1	12.2	92
WMI	.48	.44	.37	.40	.46	–.06	63.5	10.7	89
PSI	.17	.10	.03	.03	.14	–.07	69.2	15.9	80
FSIQ	.35	.16	.22	.19	.26	–.16	58.8	10.0	82
QRI	.42	.33	.34	.33	.35	–.22	62.7	10.7	92
AWMI	.46	.39	.27	.35	.39	–.14	60.1	11.6	87
NVI	.34	.23	.26	.31	.31	–.11	61.0	9.5	83
GAI	.46	.39	.33	.52	.39	–.19	61.3	10.0	92
CPI	.29	.21	.12	.12	.26	.00	61.6	12.7	78
Vineland–II									
Mean	70.1	73.6	74.6	86.0	71.3	17.9			
SD	13.2	16.4	13.7	20.3	12.9	2.6			
n	92	91	90	70	89	92			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table 3 Correlations Between WISC–V Complementary Scores and the Vineland–II for the Intellectual Disability Group

WISC–V Subtest/ Composite Score	Vineland–II Subdomain												
	Communication			Daily Living Skills			Socialization			Motor Skills		Behavior	
	Receptive	Expressive	Written	Personal	Domestic	Community	Interpersonal Relationships	Play and Leisure Time	Coping Skills	Fine	Gross	Internalizing	Externalizing
NSL	.08	.15	.23	.09	.18	.15	.07	.04	.03	–.06	.09	.01	–.01
NSQ	.29	.16	.24	.17	.24	.17	.14	.10	.22	.15	.29	–.11	–.14
IST	.35	.30	.34	.37	.34	.35	.29	.20	.40	.30	.41	–.05	–.16
DST	.38	.34	.35	.36	.36	.40	.30	.21	.42	.35	.39	–.05	–.15
RST	.33	.26	.33	.25	.29	.32	.22	.20	.35	.18	.34	–.10	–.16
NSI	.28	.29	.39	.25	.35	.31	.19	.12	.21	.09	.36	–.08	–.08
STI	.39	.33	.38	.37	.37	.41	.30	.23	.42	.31	.40	–.06	–.17
SRI	.42	.40	.52	.35	.49	.44	.34	.24	.49	.21	.56	–.14	–.24
Vineland–II													
Mean	9.7	9.7	9.5	10.7	10.4	9.7	10.1	9.1	11.9	12.7	12.6	17.7	17.0
SD	2.9	3.1	3.0	3.7	3.0	3.5	2.9	2.9	3.3	4.2	3.1	2.8	2.6
n	92	92	92	92	93	90	91	92	90	70	70	92	92

WISC–V Subtest/ Composite Score	Vineland–II Domain						WISC–V		
	Communication	Daily Living Skills	Socialization	Motor Skills	Adaptive Behavior Composite	Maladaptive Behavior Index	Mean	*SD*	*n*
NSL	.15	.11	.06	.00	.10	.03	75.5	21.7	82
NSQ	.27	.19	.16	.24	.22	–.12	69.6	16.7	83
IST	.39	.37	.34	.38	.38	–.15	69.4	16.3	93
DST	.42	.39	.37	.41	.41	–.13	72.6	15.7	93
RST	.36	.29	.30	.28	.34	–.18	70.5	14.7	91
NSI	.37	.30	.20	.23	.29	–.06	72.7	14.8	81
STI	.43	.40	.37	.39	.42	–.17	71.5	13.6	91
SRI	.52	.43	.40	.40	.48	–.17	70.4	9.9	79
Vineland–II									
Mean	70.1	73.6	74.6	86.0	71.3	17.9			
SD	13.2	16.4	13.7	20.3	12.9	2.6			
n	92	91	90	70	89	92			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

The mean WISC–V primary index scores range from 62.9 (VCI) to 69.2 (PSI). The mean FSIQ is 58.8. The Vineland–II domain means range from 70.1 (Communication) to 86.0 (Motor Skills). These scores indicate moderately low levels of adaptive behavior functioning.

The overall correlation between the FSIQ and the Adaptive Behavior Composite is low, suggesting minimal relations between overall adaptive and intellectual functioning. The Adaptive Behavior Composite has low to moderate correlations with all WISC–V primary and ancillary index scores.

All WISC–V index scores have low to moderate correlations with the Vineland–II subdomain and domain scales. The pattern of low correlations occurs, in part, due to range restriction. Correcting for range restriction increases the level of association between the WISC–V and Vineland–II. The VSI and GAI correlate moderately with fine, gross, and overall motor skills. The WMI and AWMI are moderately correlated with the Vineland–II expressive and written communication skills as well as with aspects of daily living skills (e.g., personal and community). The WMI is also associated with parent ratings of better interpersonal relationships and motor skills. Moderate relations are also observed between some WISC–V subtests and the Vineland–II domains and subdomains.

Moderate correlations are observed with the Immediate Symbol Translation and Delayed Symbol Translation subtests. The IST is moderately related to coping skills and gross motor ability. The DST is moderately related to community, coping skills, communication, total motor ability, and overall adaptive functioning skills.

This pattern of correlations indicates that memory functioning and working memory in children with ID relate to their level of adaptive functioning. Additionally, children rated as having more intact motor skills perform better on the WISC–V visual-spatial subtests.

Specific Learning Disorder-Reading and Specific Learning Disorder-Reading and Written Expression

Correlations With the WIAT–III

In the SLD-R and SLD-RW special group studies reported in the *Tech Manual*, children identified as SLD-RW demonstrate cognitive weaknesses on the VCI, FRI, WMI, AWMI, and QRI. Additionally, the SLD-RW group has weaknesses on the NSI and SRI. These results indicate difficulties with working memory, verbal knowledge and problem solving, quantitative and conceptual reasoning, automaticity of naming, and visual-verbal associative learning. For children in the matched controls, the VCI and WMI are the best predictors of overall academic functioning (with the exception of FSIQ), as measured by the WIAT–III. The VCI and the WMI are moderately to highly correlated with language, reading, and writing abilities. The QRI correlates most highly with mathematics. Based on these findings, it was expected that children showing more deficits in verbal comprehension, working memory, and naming speed would also show lower scores on correlated measures of academic performance. However, range restriction affects the relations between variables associated with reading development because there is increased likelihood that most children with reading difficulties will struggle with these skills; therefore, the results reported for this study were corrected for the variance of the normative sample.

The WISC–V and the WIAT–III were administered to 51 children diagnosed with SLD-R or SLD-RW, aged 6–16, with a testing interval of 0–35 days and a mean testing interval of 10 days. Tables 4 and 5 present the means, *SD*s, and corrected correlation coefficients between the WISC–V and the WIAT–III.

Table 4 Correlations Between the WISC–V and the WIAT–III for the Specific Learning Disorder-Reading and Reading and Written Expression Groups

WISC–V Subtest/ Composite Score	WIAT–III Subtests																	
	LC	ERS	RC	MPS	SC	WR	EC	EC-GM[a]	PD	NO	OE	ORF	ORA[a]	ORR[a]	SP	MFA	MFS	MFM
SI	.40	.18	.43	.66	.55	.31	.45	.47	.17	.46	.43	.52	.42	.49	.40	.49	.45	.48
VC	.63	.34	.71	.58	.46	.45	.21	.17	.05	.17	.67	.54	.50	.54	.33	.19	.19	.41
IN	.52	.69	.80	.77	.62	.57	.39	.46	.09	.54	.77	.70	.40	.73	.50	.53	.51	.59
CO	.56	.18	.51	.60	.46	.40	.34	.37	.12	.39	.64	.37	.28	.37	.45	.34	.30	.31
BD	.17	.16	.25	.48	.32	.12	.17	.07	.00	.16	.37	.32	.29	.31	.18	.16	.17	.23
VP	.42	.04	.28	.47	.31	.06	.13	.07	–.20	.13	.44	.15	.09	.17	–.02	.08	.25	.20
MR	.20	.61	.31	.54	.47	.14	.43	.42	.18	.36	.16	.46	.29	.51	.21	.29	.45	.36
FW	.33	.14	.28	.51	.36	.21	.34	.31	.09	.37	.33	.40	.27	.39	.31	.31	.36	.25
PC	.03	.49	.14	.29	.20	.10	.05	.04	–.02	.03	.26	.16	.03	.15	–.01	.03	.00	.19
AR	.45	.17	.54	.56	.66	.31	.28	.33	.03	.42	.54	.48	.38	.47	.56	.42	.38	.38
DS	.28	.25	.33	.42	.35	.37	.71	.52	.36	.23	.58	.32	.24	.31	.32	.32	.24	–.01
PS	.07	.31	.23	.26	.27	–.01	.04	.07	–.08	–.23	.24	.09	–.03	.13	–.01	.07	–.10	–.24
LN	.56	.21	.43	.63	.61	.45	.47	.40	.16	.27	.73	.32	.39	.33	.31	.21	.37	.41
CD	.17	.00	.33	.40	.36	.31	.44	.25	.11	.16	.34	.39	.13	.43	.22	.40	.32	.43
SS	.31	.19	.23	.16	.22	–.01	.32	.23	–.06	.16	.31	.21	–.14	.28	–.02	.37	.27	.31
CA	.57	.08	.27	.15	.04	–.15	.16	.04	–.22	.26	.36	.02	–.06	.07	–.12	.29	.25	.35
VCI	.65	.36	.70	.72	.62	.48	.36	.35	.12	.38	.68	.64	.57	.63	.44	.39	.36	.51
VSI	.36	.10	.30	.55	.37	.11	.17	.08	–.13	.16	.47	.27	.22	.27	.09	.13	.25	.25
FRI	.37	.40	.37	.65	.52	.24	.49	.46	.17	.47	.34	.54	.37	.56	.36	.39	.51	.37
WMI	.22	.37	.39	.46	.41	.24	.52	.40	.19	–.04	.55	.26	.13	.29	.21	.26	.07	–.21
PSI	.24	.09	.30	.32	.32	.18	.41	.26	.05	.17	.35	.34	.02	.39	.13	.42	.32	.40
FSIQ	.51	.35	.63	.80	.67	.48	.63	.50	.23	.45	.68	.69	.51	.69	.48	.53	.51	.51
QRI	.49	.18	.49	.66	.63	.34	.42	.41	.09	.51	.53	.56	.41	.55	.53	.47	.47	.37
AWMI	.54	.27	.48	.66	.61	.53	.71	.57	.33	.33	.78	.41	.41	.42	.41	.33	.38	.29
NVI	.39	.26	.46	.71	.57	.26	.44	.31	.01	.27	.55	.51	.28	.53	.24	.38	.41	.36
GAI	.53	.37	.59	.77	.62	.38	.44	.40	.16	.44	.60	.65	.55	.65	.44	.43	.46	.47
CPI	.31	.20	.43	.45	.46	.25	.55	.38	.11	.13	.53	.39	.08	.45	.19	.46	.30	.27
WIAT–III																		
Mean	91.5	90.3	86.6	87.6	83.8	79.2	91.4	90.0	78.0	90.0	87.9	80.9	79.3	83.8	82.4	85.6	85.9	89.6
SD	12.3	15.9	13.6	10.6	11.8	10.5	17.2	15.5	11.0	10.5	11.8	11.5	13.0	10.6	9.2	13.7	14.2	13.4
n	51	15	51	51	51	49	40	40	49	51	51	50	50	50	51	51	51	40

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

Table 4 Correlations Between the WISC–V and the WIAT–III for the Specific Learning Disorder-Reading and Reading and Written Expression Groups *(continued)*

WISC–V Subtest/ Composite Score	WIAT–III Composites								WISC–V		
	Oral Language	Total Reading	Basic Reading	Reading Comprehension and Fluency	Written Expression	Mathematics	Math Fluency	Total Achievement	Mean	*SD*	*n*
SI	.46	.47	.25	.52	.58	.63	.53	.67	7.8	2.1	51
VC	.71	.60	.27	.72	.46	.43	.27	.64	7.7	2.5	51
IN	.71	.72	.36	.83	.63	.73	.56	.80	8.3	1.9	51
CO	.66	.52	.28	.56	.55	.56	.37	.70	8.2	2.8	51
BD	.29	.31	.06	.35	.25	.35	.17	.40	9.2	2.7	51
VP	.48	.22	–.09	.34	.13	.34	.18	.40	9.0	3.0	51
MR	.20	.43	.17	.43	.43	.49	.37	.48	8.4	2.1	51
FW	.36	.39	.16	.43	.43	.48	.33	.52	8.4	2.8	51
PC	.14	.19	.04	.19	.06	.17	.05	.19	9.0	3.0	51
AR	.54	.46	.17	.59	.64	.55	.46	.67	7.9	2.1	51
DS	.48	.48	.40	.45	.58	.36	.21	.54	7.8	2.1	51
PS	.17	.05	–.05	.14	.13	.01	–.07	.16	7.8	2.3	51
LN	.70	.47	.32	.45	.58	.51	.34	.67	7.9	2.3	51
CD	.27	.38	.24	.41	.42	.31	.42	.49	8.3	3.2	51
SS	.35	.15	–.03	.31	.25	.18	.38	.36	9.1	2.8	51
CA	.53	.03	–.20	.23	.09	.23	.33	.23	9.6	3.2	50
VCI	.72	.66	.34	.74	.62	.63	.47	.76	88.0	10.8	51
VSI	.45	.31	–.03	.41	.22	.41	.21	.47	94.7	13.8	51
FRI	.39	.53	.22	.55	.56	.61	.45	.64	90.7	11.5	51
WMI	.44	.35	.24	.40	.49	.24	.09	.46	86.9	10.0	51
PSI	.32	.30	.14	.39	.36	.27	.43	.46	92.9	15.5	51
FSIQ	.65	.71	.38	.75	.73	.69	.56	.82	87.2	10.9	51
QRI	.57	.53	.22	.62	.67	.64	.49	.71	89.3	11.3	51
AWMI	.72	.58	.46	.55	.71	.54	.37	.74	88.2	10.2	51
NVI	.52	.51	.13	.58	.49	.55	.41	.67	89.1	12.2	51
GAI	.62	.66	.28	.71	.63	.67	.49	.76	88.7	11.1	51
CPI	.46	.40	.20	.49	.51	.32	.40	.56	87.9	12.4	51
WIAT–III											
Mean	88.2	78.6	78.6	80.8	83.4	87.9	86.2	81.0			
SD	12.0	8.5	9.6	11.6	11.3	9.7	13.2	9.4			
n	51	47	49	47	50	51	50	46			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table 5 Correlations Between WISC–V Complementary Scores and the WIAT–III for the Specific Learning Disorder-Reading and Reading and Written Expression Groups

WISC–V Subtest/ Composite Score	WIAT–III Subtests																	
	LC	ERS	RC	MPS	SC	WR	EC	EC-GM[a]	PD	NO	OE	ORF	ORA[a]	ORR[a]	SP	MFA	MFS	MFM
NSL	.07	.11	.19	.16	.17	.30	.30	.35	.43	.00	.21	.26	.20	.27	.24	.31	.17	.18
NSQ	.36	.45	.32	.35	.19	.27	.31	.24	.27	.16	.43	.38	.37	.39	.15	.50	.41	.44
IST	.30	.05	.47	.52	.30	.30	.18	.23	.10	.30	.46	.33	.26	.39	.25	.28	.43	.60
DST	.18	.08	.46	.51	.31	.39	.11	.19	.22	.20	.45	.34	.30	.39	.28	.30	.35	.57
RST	.29	.30	.53	.62	.45	.47	.55	.48	.25	.37	.61	.35	.25	.43	.34	.36	.47	.61
NSI	.27	.34	.33	.31	.22	.35	.33	.35	.44	.07	.40	.39	.40	.39	.26	.49	.33	.38
STI	.25	.16	.54	.57	.40	.45	.25	.30	.27	.26	.56	.35	.34	.40	.36	.28	.39	.58
SRI	.28	.52	.54	.50	.38	.50	.29	.37	.48	.14	.57	.43	.51	.45	.39	.44	.39	.53
WIAT–III																		
Mean	91.5	90.3	86.6	87.6	83.8	79.2	91.4	90.0	78.0	90.0	87.9	80.9	79.3	83.8	82.4	85.6	85.9	89.6
SD	12.3	15.9	13.6	10.6	11.8	10.5	17.2	15.5	11.0	10.5	11.8	11.5	13.0	10.6	9.2	13.7	14.2	13.4
n	51	15	51	51	51	49	40	40	49	51	51	50	50	50	51	51	51	40

WISC–V Subtest/ Composite Score	WIAT–III Composites								WISC–V		
	Oral Language	Total Reading	Basic Reading	Reading Comprehension and Fluency	Written Expression	Mathematics	Math Fluency	Total Achievement	Mean	*SD*	*n*
NSL	.17	.35	.41	.25	.36	.08	.28	.30	87.4	16.4	49
NSQ	.44	.34	.29	.33	.33	.27	.50	.37	89.9	13.9	49
IST	.42	.45	.21	.48	.27	.46	.45	.53	90.2	13.8	51
DST	.34	.48	.32	.45	.27	.39	.42	.46	91.9	13.9	51
RST	.49	.55	.40	.53	.53	.55	.49	.66	90.9	11.7	50
NSI	.38	.44	.43	.38	.41	.20	.46	.40	87.8	13.4	49
STI	.44	.55	.39	.52	.37	.46	.43	.57	89.8	12.7	50
SRI	.47	.60	.54	.54	.46	.36	.50	.56	86.0	12.7	48
WIAT–III											
Mean	88.2	78.6	78.6	80.8	83.4	87.9	86.2	81.0			
SD	12.0	8.5	9.6	11.6	11.3	9.7	13.2	9.4			
n	51	47	49	47	50	51	50	46			

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

The WISC–V mean primary index scores for this sample are in the low average to average range. The mean WIAT–III composites are in the very low to low average range from 78.6 (Total and Basic Reading) to 88.2 (Oral Language).

Correlations between the WISC–V primary index scores and WIAT–III composites reflect the relations between general and specific aspects of cognitive ability and academic performance. These correlations indicate which cognitive skills differentiate academic performance among children with known learning difficulties. In this sample, Basic Reading skills have a low correlation with most WISC–V index scores, while in the study with nonclinical children reported in the *Tech Manual*, Basic Reading is moderately associated with the VCI and WMI. This does not mean that these skills are not important in developing basic reading skills, but among children with basic reading impairments, these tests scores do not differentiate among children with low basic reading ability. In this sample, the VCI and FRI show the most consistent relations with academic functioning. The factors that may predict whether or not a child develops learning difficulties may not be the best predictors of academic ability within groups of children with specific learning disabilities. The WMI is moderately correlated with Total Achievement, Written Expression, Oral Language, and Reading Comprehension and Fluency. The PSI correlates most highly with the WIAT–III Total Achievement and Math Fluency composites. These results suggest that in the SLD-R/RW sample processing speed is related to performance on fluency tests but also to overall academic functioning.

The WISC–V ancillary index scores correlate moderately to highly with the WIAT–III Total Achievement score. The QRI correlates highly with WIAT–III Total Achievement and correlates highly with most WIAT–III composites, with the exception of Basic Reading and Math Fluency. The GAI correlations were similar to those seen with the FSIQ, but lower. The correlations between the NVI and the WIAT–III composites are slightly lower than the correlations of the GAI and the FSIQ with the WIAT–III composites. The AWMI correlates similarly to the WMI with the WIAT–III composites, but the correlations are relatively higher with the AWMI.

Among the complementary index scores, the SRI has a moderate correlation with all the WIAT–III composites, with the exception of Mathematics. The STI was most highly correlated with Total Reading and Reading Comprehension and Fluency. The NSI most highly correlates with Total Reading and Math Fluency.

Overall, the relations of the WISC–V and the WIAT–III indicate that a number of cognitive skills show a moderate relation to academic functioning in children with learning difficulties in reading. The relatively high correlation of FSIQ with academic functioning indicates that cognitive weaknesses strongly relate to lower academic scores in children with specific learning disorder-reading and specific learning disorder-reading and written expression.

Specific Learning Disorder-Mathematics

Correlations With the WIAT–III

The cognitive strengths and weaknesses of children identified with specific learning disorder-mathematics (SLD-M) are reviewed in the *Tech Manual*. Children identified as SLD-M demonstrate cognitive weaknesses on the VSI, FRI, and QRI. These results indicate difficulties with visual spatial, conceptual, and quantitative reasoning abilities. For children in the matched control, the VSI is moderately correlated with Mathematics, Oral Language, and Total Achievement composite scores from the WIAT–III. The FRI is moderately correlated with WIAT–III Mathematics and Total Achievement. The QRI is moderately correlated with all WIAT–III composites but has the highest association with the Mathematics and Total Achievement composite scores. The cognitive weaknesses associated with math difficulties are also related to math functioning in typically developing children. Based on these findings, it was expected that children showing more deficits in those cognitive domains would also show lower scores on correlated measures of academic performance.

The WISC–V and the WIAT–III were administered to 25 children diagnosed with SLD-M, aged 9–16, with a testing interval of 0–62 days and a mean testing interval of 8 days. Tables 6 and 7 present the means, *SD*s, and corrected correlation coefficients between the WISC–V and the WIAT–III.

Table 6 Correlations Between the WISC–V and the WIAT–III for the Specific Learning Disorder-Mathematics Group

WISC–V Subtest/ Composite Score	WIAT–III Subtests																
	LC	RC	MPS	SC	WR	EC	EC-GM[a]	PD	NO	OE	ORF	ORA[a]	ORR[a]	SP	MFA	MFS	MFM
SI	.77	.49	.22	.63	.53	–.01	.07	.31	.53	.62	.40	.44	.37	.41	.24	.56	.31
VC	.81	.65	.50	.48	.60	.15	.14	.53	.51	.62	.46	.47	.43	.32	.09	.43	.31
IN	.93	.66	.55	.74	.60	.50	.50	.57	.57	.87	.37	.35	.40	.52	.39	.63	.44
CO	.70	.65	.55	.55	.57	.06	.06	.46	.67	.52	.50	.45	.45	.42	.23	.50	.35
BD	.71	.52	.45	.49	.29	.34	.60	.54	.45	.54	.49	.47	.49	.34	.32	.51	.33
VP	.78	.52	.46	.35	.53	.37	.49	.56	.38	.58	.29	.36	.26	.28	.18	.38	.39
MR	.43	.30	.25	.42	.22	.29	.45	.26	.30	.46	.20	.13	.20	.29	.34	.38	.20
FW	.35	.47	.68	.25	.28	.15	.31	.26	.43	.38	.24	.18	.22	.11	.10	.20	.34
PC	.54	.29	.32	.13	.40	–.02	.18	.28	.26	.42	.31	.20	.30	.18	.55	.33	.27
AR	.68	.55	.66	.69	.62	.28	.56	.63	.77	.47	.63	.66	.56	.66	.60	.69	.57
DS	.51	.49	.36	.63	.53	.18	.52	.62	.57	.37	.71	.69	.62	.60	.57	.69	.55
PS	.60	.46	.38	.53	.53	.38	.56	.61	.45	.56	.51	.32	.47	.32	.35	.53	.33
LN	.35	.51	.64	.64	.63	.25	.48	.74	.56	.35	.60	.64	.51	.55	.50	.58	.58
CD	.44	.23	.26	.47	.24	.36	.51	.26	.52	.56	.57	.11	.54	.18	.57	.63	.49
SS	.31	.20	–.12	.31	.02	.07	.26	.28	.07	.27	.29	.15	.28	.23	.43	.37	.14
CA	.21	–.17	–.22	.01	–.12	.26	.26	.02	.00	.42	.19	.02	.21	–.04	.09	.19	.13
VCI	.83	.62	.42	.58	.60	.10	.12	.48	.55	.65	.47	.49	.44	.38	.15	.51	.33
VSI	.77	.54	.47	.42	.44	.37	.54	.57	.42	.58	.38	.42	.37	.31	.24	.46	.38
FRI	.50	.50	.59	.42	.32	.29	.50	.33	.46	.57	.28	.19	.27	.25	.28	.36	.34
WMI	.63	.53	.42	.66	.59	.33	.62	.69	.57	.53	.68	.57	.60	.52	.52	.69	.50
PSI	.43	.26	.05	.43	.13	.23	.43	.33	.30	.46	.47	.16	.45	.24	.57	.56	.33
FSIQ	.87	.71	.65	.72	.62	.35	.61	.63	.72	.79	.66	.55	.62	.50	.47	.71	.56
QRI	.57	.60	.78	.49	.49	.23	.48	.47	.66	.49	.46	.44	.42	.36	.34	.46	.51
AWMI	.48	.62	.57	.74	.64	.23	.56	.76	.62	.42	.74	.74	.65	.67	.62	.73	.66
NVI	.72	.56	.56	.52	.46	.42	.63	.53	.53	.69	.46	.31	.43	.31	.37	.53	.43
GAI	.90	.74	.67	.68	.61	.32	.53	.59	.68	.81	.56	.49	.52	.45	.32	.62	.47
CPI	.56	.41	.22	.57	.39	.29	.54	.54	.45	.50	.60	.40	.54	.41	.55	.65	.43
WIAT–III																	
Mean	94.8	90.7	78.7	85.7	94.2	93.6	88.8	92.5	79.5	92.3	94.4	93.3	96.4	91.4	82.0	78.2	78.7
SD	14.5	11.6	10.9	14.0	14.2	11.4	12.5	11.0	9.0	11.4	10.1	14.5	9.1	14.0	14.3	14.2	12.0
n	25	25	25	25	25	24	24	25	25	24	25	25	25	25	25	25	24

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, RC = Reading Comprehension, MPS = Math Problem Solving, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

Table 6 Correlations Between the WISC–V and the WIAT–III for the Specific Learning Disorder-Mathematics Group *(continued)*

WISC–V Subtest/ Composite Score	WIAT–III Composites								WISC–V		
	Oral Language	Total Reading	Basic Reading	Reading Comprehension and Fluency	Written Expression	Mathematics	Math Fluency	Total Achievement	Mean	*SD*	*n*
SI	.79	.51	.46	.54	.48	.38	.41	.68	8.3	2.3	25
VC	.78	.64	.61	.64	.40	.54	.29	.72	8.4	3.1	25
IN	.94	.63	.62	.60	.76	.59	.57	.86	8.0	2.0	24
CO	.66	.61	.55	.66	.46	.64	.37	.68	8.3	2.6	25
BD	.68	.51	.43	.54	.49	.48	.39	.62	7.2	2.2	25
VP	.74	.55	.58	.46	.42	.46	.35	.67	7.7	2.7	25
MR	.48	.27	.25	.29	.44	.29	.36	.43	7.2	3.4	25
FW	.38	.34	.29	.41	.20	.61	.20	.44	6.6	3.3	25
PC	.53	.37	.37	.33	.12	.31	.42	.39	8.8	3.0	25
AR	.65	.69	.66	.66	.72	.75	.66	.78	6.6	2.4	25
DS	.47	.65	.60	.67	.62	.49	.66	.63	8.2	2.7	25
PS	.63	.59	.60	.55	.53	.43	.43	.65	8.3	2.7	25
LN	.35	.71	.71	.63	.64	.63	.56	.66	8.0	2.0	24
CD	.52	.36	.27	.48	.43	.39	.60	.49	7.3	2.2	25
SS	.31	.21	.14	.28	.30	–.06	.35	.21	8.5	2.8	25
CA	.34	–.03	–.07	.03	.07	–.14	.14	.09	10.4	3.0	25
VCI	.81	.62	.58	.64	.47	.51	.37	.74	91.3	13.8	25
VSI	.74	.55	.54	.51	.46	.48	.38	.67	86.0	12.8	25
FRI	.57	.39	.35	.45	.41	.57	.36	.57	82.5	15.3	25
WMI	.63	.70	.67	.68	.65	.51	.62	.73	89.9	13.7	25
PSI	.47	.33	.23	.43	.41	.15	.53	.39	88.4	12.2	25
FSIQ	.88	.71	.66	.77	.67	.71	.63	.86	83.5	12.0	25
QRI	.57	.56	.51	.60	.47	.78	.44	.69	80.6	13.9	25
AWMI	.47	.77	.74	.75	.73	.62	.72	.74	89.2	11.2	24
NVI	.76	.56	.53	.57	.53	.58	.47	.72	81.7	13.8	25
GAI	.91	.68	.64	.73	.63	.72	.50	.85	84.4	12.3	25
CPI	.57	.54	.49	.58	.57	.33	.60	.59	87.0	14.0	25
WIAT–III											
Mean	92.5	90.2	92.7	90.6	88.1	78.3	78.7	86.0			
SD	13.9	10.5	11.3	10.7	11.9	8.9	12.5	11.1			
n	24	25	25	25	24	25	24	23			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table 7 Correlations Between WISC–V Complementary Scores and the WIAT–III for the Specific Learning Disorder-Mathematics Group

WISC–V Subtest/ Composite Score	WIAT–III Subtests																
	LC	RC	MPS	SC	WR	EC	EC-GM[a]	PD	NO	OE	ORF	ORA[a]	ORR[a]	SP	MFA	MFS	MFM
NSL	.19	.11	.23	.24	.45	.47	.26	.35	.40	.54	.68	.25	.67	.43	.25	.44	.44
NSQ	.43	.16	.26	.40	.34	.37	.29	.39	.37	.56	.58	.26	.57	.31	.30	.53	.27
IST	.34	.15	.06	.38	.17	.31	.16	–.03	.28	.53	.10	–.22	.09	.08	.37	.41	.31
DST	.27	.02	–.03	.27	.18	.29	.28	–.06	.25	.47	.17	–.23	.16	.05	.34	.33	.27
RST	.32	.10	.19	.30	.34	.25	.10	.11	.22	.53	.25	–.03	.24	.09	.27	.30	.21
NSI	.39	.18	.27	.40	.48	.48	.34	.43	.46	.65	.72	.29	.70	.43	.33	.58	.41
STI	.35	.12	.10	.35	.26	.33	.21	.02	.28	.55	.20	–.16	.19	.09	.37	.38	.30
SRI	.43	.17	.20	.42	.41	.45	.31	.24	.41	.68	.50	.04	.49	.26	.38	.53	.39
WIAT–III																	
Mean	94.8	90.7	78.7	85.7	94.2	93.6	88.8	92.5	79.5	92.3	94.4	93.3	96.4	91.4	82.0	78.2	78.7
SD	14.5	11.6	10.9	14.0	14.2	11.4	12.5	11.0	9.0	11.4	10.1	14.5	9.1	14.0	14.3	14.2	12.0
n	25	25	25	25	25	24	24	25	25	24	25	25	25	25	25	25	24

WISC–V Subtest/ Composite Score	WIAT–III Composites								WISC–V		
	Oral Language	Total Reading	Basic Reading	Reading Comprehension and Fluency	Written Expression	Mathematics	Math Fluency	Total Achievement	Mean	*SD*	*n*
NSL	.39	.49	.43	.49	.47	.32	.35	.49	98.7	12.5	25
NSQ	.53	.43	.38	.44	.46	.34	.39	.52	92.8	14.6	25
IST	.50	.12	.10	.17	.33	.16	.41	.39	91.9	13.9	25
DST	.42	.10	.09	.13	.26	.10	.34	.29	95.4	13.9	25
RST	.47	.26	.26	.23	.26	.22	.27	.40	93.7	14.4	25
NSI	.55	.53	.49	.54	.54	.38	.46	.60	94.8	12.7	25
STI	.51	.18	.17	.20	.32	.18	.38	.40	93.1	14.0	25
SRI	.60	.40	.36	.41	.47	.32	.46	.56	92.4	14.1	25
WIAT–III											
Mean	92.5	90.2	92.7	90.6	88.1	78.3	78.7	86.0			
SD	13.9	10.5	11.3	10.7	11.9	8.9	12.5	11.1			
n	24	25	25	25	24	25	24	23			

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, RC = Reading Comprehension, MPS = Math Problem Solving, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

The WISC–V mean primary index scores for this sample range from low average to average. The mean WIAT–III composite scores range from 78.3 (Mathematics) to 92.7 (Basic Reading).

Correlations between the WISC–V primary index scores and WIAT–III composites reflect the relations between general and specific aspects of cognitive ability and academic performance. These relations indicate which cognitive skills differentiate academic performance among children with known math difficulties. In this sample, math skills have moderate correlations with most WISC–V primary index scores. The FRI and FSIQ have the strongest association with Mathematics. Math Fluency is most highly correlated with the WMI and FSIQ. The FRI and WMI correlations are larger in this sample than those observed in the nonclinical sample reported in the *Tech Manual*. Overall academic functioning has moderate to high correlations with all primary index scores except the PSI; the highest correlations were with the VCI, WMI, and FSIQ.

The WISC–V ancillary index scores correlate in the moderate to high range with the WIAT–III Total Achievement score. The GAI correlates with Total Achievement at nearly the same level as the FSIQ. The correlations between the NVI and the WIAT–III composites are slightly lower than the correlations of the GAI and the FSIQ with the WIAT–III composites. The QRI is moderately to highly correlated with the WIAT–III composite scores, and among all primary and ancillary index scores, it has the highest correlation with the Mathematics composite. The AWMI is highly correlated with all WIAT–III composites, with the exception of Oral Language. It is most highly correlated with Total Reading and Reading Comprehension and Fluency. Among the complementary index scores, the NSI and SRI correlate moderately with Math Fluency.

There were many moderate to high correlations observed between cognitive functioning and academic performance in the SLD-M sample. Overall, the relations of the WISC–V and the WIAT–III indicate that a number of cognitive skills show a moderate to high correlation with academic functioning in children with math learning difficulties. The QRI and, to a lesser degree, the FRI are particularly important in math skills while the WMI and PSI are related to Math Fluency. The relatively high correlation of the FSIQ with academic functioning indicates that cognitive weaknesses strongly relate to lower academic scores in children with specific learning disorder-mathematics.

Attention-Deficit/Hyperactivity Disorder

Correlations With the BASC–2 PRS

Children diagnosed with ADHD have behavioral symptoms that include attention and executive functioning problems (Delis, 2012) which can be evaluated with the BASC–2. Cognitively, children diagnosed with ADHD show weaknesses on the WISC–V working memory and processing speed measures. The relation between the BASC–2 and the WISC–V evaluates whether measured cognitive difficulties are related to observable behavioral problems. In the nonclinical sample reported in the *Tech Manual*, the BASC–2 and WISC–V were generally unrelated. Given that typically developing children do not show significant behavior problems, this finding is not unexpected. Similarly, while children with ADHD will have a higher degree of problems, range restriction may also be observed in this sample.

The WISC–V and the selected scales from the BASC–2 PRS were administered to 46 children diagnosed with ADHD, aged 6–16, and their caregivers, with a testing interval of 0–14 days and a mean testing interval of 1 day. It was predicted that, in general, low inverse correlations would be present between the WISC–V and the selected BASC–2 PRS scores, except for the Resiliency scale, which would be positively correlated. Tables 8 and 9 present the means, *SD*s, and correlation coefficients between the WISC–V and selected BASC–2 PRS scales. The correlations are not corrected because the range of scores on the WISC–V was not greatly restricted in this study.

Table 8 Correlations Between the WISC–V and the BASC–2 PRS for the Attention-Deficit/Hyperactivity Disorder Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
SI	–.14	–.06	.03	–.23	9.6	2.3	46
VC	–.01	–.25	–.14	–.26	9.6	2.4	46
IN	–.02	–.06	.05	–.21	9.7	2.8	46
CO	–.17	–.15	.06	–.19	9.5	2.8	46
BD	–.29	.00	.22	–.02	9.5	3.1	46
VP	–.16	–.01	.04	–.17	9.7	3.3	46
MR	–.17	.13	.21	–.07	9.3	2.5	46
FW	.06	–.17	–.01	–.24	9.7	3.0	46
PC	–.02	–.17	.06	–.20	8.9	2.8	46
AR	.17	–.08	–.16	–.25	8.5	2.6	46
DS	–.12	.07	.15	–.10	9.4	2.5	45
PS	.00	–.13	.06	–.12	8.9	2.7	46
LN	.07	–.17	–.14	–.02	9.1	3.0	45
CD	–.15	.21	.06	–.10	8.5	2.6	46
SS	–.02	–.02	–.09	–.25	9.6	3.0	45
CA	.06	.08	.01	–.16	9.7	2.6	46
VCI	–.08	–.17	–.06	–.27	98.0	11.6	46
VSI	–.23	–.01	.13	–.10	97.5	16.8	46
FRI	–.05	–.03	.11	–.20	97.4	13.5	46
WMI	–.06	.01	.12	–.13	95.4	13.1	45
PSI	–.11	.12	–.02	–.20	94.8	13.4	45
FSIQ	–.18	.06	.13	–.22	95.9	11.8	45
QRI	.13	–.14	–.10	–.29	94.9	14.4	46
AWMI	–.01	–.07	–.01	–.07	95.8	13.1	45
NVI	–.19	.01	.16	–.19	94.6	13.3	46
GAI	–.14	–.09	.08	–.21	97.1	13.6	46
CPI	–.09	.04	.05	–.25	93.6	12.0	44
BASC–2 PRS							
Mean	38.6	57.7	63.9	66.3			
SD	10.1	9.7	9.9	5.9			
n	44	46	45	46			

Table 9 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Attention-Deficit/Hyperactivity Disorder Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
NSL	.04	.08	–.09	–.06	95.0	15.2	45
NSQ	–.07	–.01	.00	–.13	94.1	15.9	45
IST	–.01	–.04	.11	–.33	100.1	15.3	46
DST	–.06	–.07	.08	–.32	99.3	15.4	46
RST	.10	–.01	.09	–.31	103.0	16.8	46
NSI	–.02	.05	–.04	–.11	93.8	15.5	45
STI	.01	–.01	.11	–.34	100.8	15.8	46
SRI	–.01	.14	.05	–.33	97.1	13.4	45
BASC–2 PRS							
Mean	38.6	57.7	63.9	66.3			
SD	10.1	9.7	9.9	5.9			
n	44	46	45	46			

The mean WISC–V index and subtest scores are in the average range. The selected BASC–2 PRS problem behavior scores range from 38.6 (Resiliency) to 66.3 (Attention Problems).

As expected, low negative correlations are present between the WISC–V and selected BASC–2 PRS scores. The correlations indicate that in a sample of children with observable attention and executive functioning difficulties, cognitive difficulties are not highly related to behavioral difficulties. For the nonclinical sample reported in the *Tech Manual*, the strongest association between behavior and cognition was observed between the WISC–V WMI and the BASC–2 Attention Problems scale. In the ADHD sample, the Symbol Translation subtests, the STI, and the SRI show the largest associations with Attention Problems.

These results suggest that cognitive abilities share low levels of association with attention and executive function, when assessed using a parent report measure. Of the WISC–V measures, the memory tasks have the highest association with observable behavior. Children with memory problems may be rated by their parents as inattentive.

Correlations With the Brown ADD

Children diagnosed with ADHD have behavioral symptoms that include attention and executive functioning problems (Delis, 2012) which can be evaluated with the Brown ADD. Cognitively, children diagnosed with ADHD show weaknesses on the WISC–V working memory and processing speed measures.

The WISC–V and the Brown ADD were administered to 47 children diagnosed with ADHD, aged 6–16, and their caregivers, with a testing interval of 0–24 days and a mean testing interval of 4 days. Tables 10 and 11 present the means, *SD*s, and correlation coefficients between the WISC–V and the Brown ADD. The correlations are not corrected as the range of scores on the WISC–V was not greatly restricted in this study.

Table 10 Correlations Between the WISC–V and the Brown ADD for the Attention-Deficit/Hyperactivity Disorder Group

WISC–V Subtest/ Process/ Composite Score	Brown ADD Scores								WISC–V		
	Activation	Focus	Effort	Emotion	Memory	ADD Inattention Total	Action	ADD Combined Total Score	Mean	*SD*	*n*
SI	–.01	.19	–.10	.19	–.11	.00	–.18	.01	9.6	2.3	47
VC	–.07	.11	–.13	–.01	–.03	–.24	–.33	–.05	9.6	2.4	47
IN	–.02	.12	.06	.05	–.01	–.12	–.21	.06	9.6	2.8	47
CO	–.05	.05	–.21	.03	.08	–.09	–.08	–.05	9.4	2.8	47
BD	–.07	.07	.02	.13	–.07	–.06	–.35	–.01	9.3	3.0	47
VP	–.08	.10	–.04	.11	–.06	–.08	–.45	–.05	9.5	3.2	47
MR	.08	.07	–.01	.07	–.01	–.12	–.24	.05	9.4	2.5	47
FW	.04	.21	–.05	.04	.02	–.12	–.16	.06	9.7	3.0	47
PC	.07	.06	–.03	.05	–.14	–.14	–.37	–.02	9.0	2.8	47
AR	.07	.14	–.04	.07	.00	–.03	–.04	.06	8.5	2.6	47
DS	.10	.12	.00	.24	.00	.05	–.13	.11	9.2	2.6	46
PS	–.07	.11	–.19	.12	–.03	.11	–.11	–.05	8.9	2.8	47
LN	.14	.24	.02	.03	.05	.06	–.07	.12	9.0	3.1	46
CD	–.13	–.21	–.19	.03	.00	–.11	.16	–.06	8.4	2.7	47
SS	–.09	.11	–.17	.00	.20	.10	.08	.02	9.5	3.1	46
CA	–.18	–.08	–.01	–.05	.13	.04	.33	.01	9.6	2.6	47
BDn	–.05	.08	.05	.13	–.03	–.02	–.38	.01	9.3	2.8	47
BDp	–.05	–.05	.06	.19	–.01	–.18	–.34	.05	9.5	2.7	46
DSf	–.05	–.03	–.04	.18	–.03	.06	–.08	.01	9.6	3.0	47
DSb	.09	.19	.00	.15	.13	.03	.00	.16	9.3	3.0	47
DSs	.19	.14	.05	.27	–.04	.07	–.14	.14	9.3	2.2	46
CAr	–.16	–.13	–.04	–.04	.07	–.02	.29	–.03	10.0	2.5	47
CAs	–.11	–.01	.02	–.04	.16	.08	.24	.05	9.1	2.8	47
VCI	–.04	.16	–.12	.10	–.07	–.12	–.26	–.02	97.7	11.5	47
VSI	–.08	.10	–.02	.12	–.07	–.08	–.43	–.03	96.6	16.2	47
FRI	.07	.17	–.04	.07	.01	–.16	–.24	.06	97.4	13.4	47
WMI	–.01	.08	–.11	.20	–.06	.06	–.10	.02	94.7	13.4	46
PSI	–.13	–.05	–.21	.02	.13	–.01	.13	–.02	94.1	14.0	46
FSIQ	–.03	.04	–.09	.16	–.09	–.18	–.22	.01	95.3	11.7	46
QRI	.06	.19	–.06	.06	.00	–.09	–.11	.05	94.8	14.3	47
AWMI	.14	.21	.01	.15	.04	.06	–.10	.14	95.0	13.3	46
NVI	–.06	.09	–.12	.14	–.04	–.12	–.32	–.02	94.1	13.1	47
GAI	–.02	.15	–.06	.10	–.06	–.15	–.34	.01	96.8	13.3	47
CPI	–.06	.00	–.19	.13	.03	.03	.04	.00	92.8	12.7	45
Brown ADD											
Mean	66.1	67.3	63.8	60.8	65.4	65.5	66.0	66.6			
SD	7.5	5.8	8.7	8.4	10.3	7.1	7.2	7.0			
n	47	47	47	47	47	30	30	47			

Table 11 Correlations Between WISC–V Complementary Scores and the Brown ADD for the Attention-Deficit/Hyperactivity Disorder Group

WISC–V Subtest/ Composite Score	Brown ADD Scores								WISC–V		
	Activation	Focus	Effort	Emotion	Memory	ADD Inattention Total	Action	ADD Combined Total Score	Mean	*SD*	*n*
NSL	.22	.21	.25	.17	.24	.34	.27	.28	93.7	16.8	46
NSQ	.19	.12	.23	.27	.28	.34	.17	.28	93.6	16.2	46
IST	–.16	.07	–.19	.00	–.12	–.07	–.19	–.13	100.2	15.1	47
DST	–.17	.03	–.25	.04	–.11	–.10	–.27	–.15	99.3	15.2	47
RST	–.13	.06	–.21	.00	–.07	–.13	–.14	–.09	102.5	16.3	47
NSI	.24	.17	.28	.24	.27	.40	.26	.31	93.1	16.1	46
STI	–.19	.04	–.24	.00	–.13	–.14	–.21	–.15	100.6	15.5	47
SRI	.02	.02	.04	.15	.03	.11	.07	.08	96.5	13.6	46
Brown ADD											
Mean	66.1	67.3	63.8	60.8	65.4	65.5	66.0	66.6			
SD	7.5	5.8	8.7	8.4	10.3	7.1	7.2	7.0			
n	47	47	47	47	47	30	30	47			

The mean WISC–V subtest, process, and index scores are in the average range. The selected Brown ADD scores range from 60.8 (Emotion) to 67.3 (Focus).

As expected, low negligible negative correlations are present between the WISC–V and most scales from the Brown ADD Scale Parent Rating Form. Moderate negative correlations are present between the Brown Action scale and the VSI. A moderate correlation is observed between NSI and the ADD Inattention Total score. These results suggest that, in children with ADHD, cognitive abilities share low levels of association with attention, behavior, and executive function, as assessed using a parent-report measure.

Disruptive Behavior

Correlations With the BASC–2 PRS

Children with DB exhibit behavioral symptoms that include conduct problems, and in some cases, attention and executive functioning problems, which can be evaluated with the BASC–2 (see Children With Disruptive Behavior in Chapter 5 of the *Tech Manual* for symptom review). For the sample reported in the *Tech Manual*, children with DB did not show specific cognitive weaknesses as measured by the WISC–V compared to matched controls.

The WISC–V and selected scales from the BASC–2 PRS were administered to 21 children diagnosed with DB, aged 6–15, and their caregivers, with a testing interval of 0–13 days and a mean testing interval of 1 day. Tables 12 and 13 present the means, *SD*s, and correlation coefficients between the WISC–V and selected scales of the BASC–2 PRS. It was predicted that, in general, low inverse correlations would be present between the WISC–V and the selected BASC–2 PRS scores, except for the Resiliency scale, which would be positively correlated. The correlations are not corrected as the range of scores on the WISC–V was not greatly restricted in this study.

Table 12 Correlations Between the WISC–V and the BASC–2 PRS for the Disruptive Behavior Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
SI	.41	–.36	–.16	–.25	9.4	2.6	21
VC	.22	–.28	–.31	–.37	8.4	2.3	21
IN	.37	–.34	–.32	–.29	9.0	3.0	21
CO	.31	–.41	–.17	–.38	9.3	3.3	21
BD	.44	–.13	–.21	–.09	9.5	2.7	21
VP	.38	–.33	–.44	–.09	9.5	2.7	21
MR	.66	–.44	–.41	–.23	9.2	3.1	21
FW	.45	–.16	–.03	.03	8.8	2.8	21
PC	.22	–.07	.04	–.12	9.4	2.6	21
AR	.22	–.02	.19	.07	9.0	3.1	21
DS	.41	–.12	.11	–.20	9.3	3.4	21
PS	.19	.06	–.04	.00	9.0	3.0	21
LN	.50	–.12	–.02	–.32	8.7	3.8	21
CD	–.15	.25	.27	.11	8.7	3.2	21
SS	–.04	–.01	.12	–.11	8.8	3.2	21
CA	.21	.07	–.01	–.30	9.6	2.4	21
VCI	.37	–.35	–.25	–.35	94.1	11.8	21
VSI	.44	–.25	–.34	–.09	97.1	13.9	21
FRI	.63	–.35	–.26	–.11	94.4	15.2	21
WMI	.42	–.04	.06	–.15	95.3	13.7	21
PSI	–.12	.13	.23	.00	92.8	17.1	21
FSIQ	.55	–.28	–.15	–.20	93.3	12.4	21
QRI	.40	–.11	.11	.06	93.8	13.7	21
AWMI	.51	–.13	.04	–.30	94.5	18.0	21
NVI	.53	–.21	–.23	–.06	93.6	12.5	21
GAI	.65	–.40	–.33	–.24	94.1	12.0	21
CPI	.17	.07	.18	–.07	92.8	14.3	21
BASC–2 PRS							
Mean	36.6	82.8	71.8	67.5			
SD	9.9	13.3	11.8	9.6			
n	21	21	21	21			

Table 13 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Disruptive Behavior Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
NSL	–.09	–.36	.11	.02	101.0	8.0	21
NSQ	.39	–.37	–.23	–.25	102.2	10.0	21
IST	.25	–.10	.06	.07	100.2	13.4	21
DST	.26	–.23	–.14	–.09	99.7	12.1	21
RST	.46	–.19	–.27	–.21	100.2	10.6	21
NSI	.26	–.48	–.12	–.18	100.9	8.4	21
STI	.33	–.17	–.10	–.05	99.5	13.0	21
SRI	.35	–.33	–.12	–.11	100.0	12.0	21
BASC–2 PRS							
Mean	36.6	82.8	71.8	67.5			
SD	9.9	13.3	11.8	9.6			
n	21	21	21	21			

The mean WISC–V composite and subtest scores are in the average range. The selected BASC–2 PRS scores range from 36.6 (Resiliency) to 82.8 (Conduct Problems).

The results indicate a general low negative correlation between the BASC–2 behavior problem scales (e.g., Conduct Problems, Executive Functioning, and Attention Problems) and the WISC–V composite scores. The only moderate correlations with the WISC–V composite scores were between the GAI and the NSI with the Conduct Problems scale. In contrast to these findings, there were many moderate positive correlations between the WISC–V and the BASC–2 Resiliency scale. Of these, the highest correlations are observed with the GAI (.65) and the FRI (.63).

These findings suggest that in children with behavior problems, those with better general cognitive functioning and in particular, conceptual reasoning ability may be better able to overcome adversity and cope with stressful situations than those with lower cognitive ability. These results further suggest that, in children with DB, cognitive abilities share low levels of association with attention and executive function, as assessed using a parent report measure. However, children with DB that have stronger general ability and fluid reasoning skills may appear more resourceful and stress tolerant than children with lower ability.

Traumatic Brain Injury

Correlations With the BASC–2 PRS

Children with moderate to severe TBI are at risk for developing multiple neurobehavioral and cognitive symptoms, including impulsivity, and executive functioning and attention deficits (Donders, 2008), which can be evaluated with the BASC–2. For the sample reported in the *Tech Manual*, children with moderate to severe TBI show general cognitive difficulties and specific cognitive weaknesses on the VSI, FRI, and WMI compared to matched controls.

The WISC–V and selected scales from the BASC–2 PRS were administered to 18 children having moderate to severe TBI, aged 7–15, and their caregivers, with a testing interval of 0–15 days and a mean testing interval of 1 day. Tables 14 and 15 present the means, *SD*s, and correlation coefficients between the WISC–V and selected scales from the BASC–2 PRS. The correlations are not corrected as the range of scores on the WISC–V was not greatly restricted in this study.

Table 14 Correlations Between the WISC–V and the BASC–2 PRS for the Traumatic Brain Injury Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
SI	–.07	–.18	–.18	–.44	8.4	2.8	15
VC	.13	–.11	.10	.01	8.2	3.2	17
IN	.08	–.12	–.18	–.30	7.9	2.9	18
CO	–.18	–.09	–.05	–.12	8.2	2.4	18
BD	.02	.50	.39	.08	8.1	3.0	17
VP	–.41	.20	.14	–.02	7.7	3.4	18
MR	–.24	.09	.31	–.08	8.3	3.6	18
FW	–.48	.17	.28	.09	7.8	3.8	18
PC	–.40	–.21	–.21	–.38	7.9	3.9	18
AR	–.17	–.02	.00	–.17	7.3	3.0	18
DS	–.09	–.04	–.08	–.26	7.9	3.2	18
PS	–.20	.02	.07	–.04	7.5	2.7	18
LN	–.33	.11	–.06	–.20	8.0	3.2	18
CD	.00	.08	.14	–.13	7.0	3.6	17
SS	–.12	.35	.31	–.06	7.6	3.7	17
CA	–.05	–.04	.25	–.07	8.4	3.8	17
VCI	.04	–.27	–.06	–.30	88.9	13.8	15
VSI	–.21	.39	.30	.00	89.0	15.7	17
FRI	–.40	.13	.33	.01	88.9	18.9	18
WMI	–.15	–.03	–.03	–.18	86.6	16.2	18
PSI	–.08	.23	.24	–.08	84.2	21.0	17
FSIQ	–.14	–.04	.18	–.27	83.7	14.6	15
QRI	–.36	.08	.16	–.03	85.7	18.2	18
AWMI	–.23	.04	–.07	–.24	88.5	16.8	18
NVI	–.24	.21	.27	–.05	85.6	17.6	17
GAI	–.21	–.04	.24	–.20	86.2	14.2	15
CPI	–.07	.14	.15	–.17	83.8	17.7	17
BASC–2 PRS							
Mean	41.9	49.8	56.4	59.2			
SD	7.0	11.9	10.3	7.4			
n	18	18	17	17			

Table 15 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Traumatic Brain Injury Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale				WISC–V		
	Resiliency	Conduct Problems	Executive Functioning	Attention Problems	Mean	*SD*	*n*
NSL	–.03	.01	–.11	–.16	90.5	22.9	16
NSQ	–.18	–.12	.02	–.08	88.9	22.2	17
IST	–.23	.33	–.20	–.16	88.6	21.4	17
DST	–.14	.29	–.18	–.18	88.9	18.9	17
RST	–.26	.29	.04	–.07	89.3	20.4	16
NSI	–.04	–.08	–.07	–.14	90.1	21.5	16
STI	–.24	.40	–.08	–.13	88.1	18.5	16
SRI	–.12	.18	–.14	–.16	90.3	16.4	14
BASC–2 PRS							
Mean	41.9	49.8	56.4	59.2			
SD	7.0	11.9	10.3	7.4			
n	18	18	17	17			

The mean WISC–V composite and subtest scores are in the low average range. The selected BASC–2 PRS scores range from 41.9 (Resiliency) to 59.2 (Attention Problems). As a group, children in this sample do not show a high degree of behavioral symptoms, as rated by their parent.

In general, low negative correlations are present between the WISC–V and selected BASC–2 PRS scores. A few moderate correlations are observed between the two measures. However, given the large number of correlations and the small sample size, these may not be meaningful. The results suggest that among children with TBI, cognitive abilities share low levels of association with attention and executive function, as assessed with a parent rating measure. In the TBI sample, observable behavior problems may not relate to severity of cognitive difficulties.

Autism Spectrum Disorder With Accompanying Language Impairment

Correlations With the BASC–2 PRS

Children diagnosed with ASD-L have multiple behavioral and cognitive symptoms which can be evaluated with the BASC–2 (see Children With Autism Spectrum Disorder in Chapter 5 of the *Tech Manual* for symptom review). For the sample reported in the *Tech Manual*, children diagnosed with ASD-L show general and specific cognitive weaknesses on the VCI, WMI, PSI, and AWMI compared with matched controls.

The WISC–V and the full BASC–2 PRS were administered to 27 children diagnosed with ASD-L, aged 6–16, and their caregivers, with a testing interval from 0–33 days and a mean testing interval of 4 days. Tables 16 and 17 present the means, *SD*s, and correlation coefficients between the WISC–V and BASC–2 PRS. The BASC–2 PRS scores reported here include: Hyperactivity, Aggression, Conduct Problems, Anxiety, Depression, Somatization, Atypicality, Withdrawal, Attention Problems, Adaptability, Social Skills, Leadership, Activities of Daily Living, Functional Communication, Anger Control, Bullying, Developmental Social Disorders, Emotional Self-Control, Executive Functioning, Negative Emotionality, Resiliency, Adaptive Skills, Behavioral Symptom Index, Externalizing Problems, and Internalizing Problems. The correlations are not corrected as the range of scores on the WISC–V was not greatly restricted in this study.

Table 16 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder With Language Impairment Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale										
	Hyperactivity	Aggression	Conduct Problems	Anxiety	Depression	Somatization	Atypicality	Withdrawal	Attention Problems	Adaptability	Social Skills
SI	–.14	.27	.05	.35	.26	.09	–.31	–.25	–.08	.06	.30
VC	.02	.41	.19	.48	.36	.26	–.08	–.24	–.12	.04	.16
IN	–.17	.35	.24	.40	.20	.15	–.35	–.10	–.25	.03	.30
CO	–.13	.21	.08	.45	.26	.15	–.13	–.19	–.08	.12	.25
BD	–.08	.21	.17	.28	.20	.29	–.16	–.04	–.19	–.09	.17
VP	–.22	.27	.12	.44	.43	.34	.02	–.10	–.29	.02	.17
MR	–.27	–.01	.13	.23	.27	.25	.00	–.08	–.28	.07	.22
FW	–.16	.08	.00	.43	.24	.26	–.02	–.17	–.21	.10	.16
PC	–.27	.16	–.03	.23	.01	–.05	–.47	–.34	–.41	.22	.35
AR	–.15	.24	.01	.26	.18	.07	–.33	–.32	–.30	.05	.31
DS	–.26	.31	.15	.36	.27	.20	–.37	–.35	–.47	.20	.42
PS	–.38	–.11	–.15	.11	.11	.05	–.07	.00	–.33	.13	.18
LN	–.31	.20	.09	.29	.24	.16	–.27	–.34	–.31	.15	.28
CD	–.41	–.13	.13	.18	.25	.38	.12	–.05	–.36	.17	–.06
SS	–.08	–.05	.15	.22	.28	.16	–.12	–.36	.09	.17	.11
CA	–.20	–.26	.01	.20	.04	.05	–.16	–.16	–.21	.17	.16
VCI	–.09	.34	.07	.38	.28	.16	–.24	–.28	–.08	.07	.27
VSI	–.20	.23	.14	.37	.31	.34	–.09	–.09	–.30	.00	.23
FRI	–.23	.03	.07	.35	.28	.27	–.01	–.14	–.26	.08	.20
WMI	–.38	.11	–.02	.26	.20	.13	–.26	–.22	–.45	.21	.35
PSI	–.24	–.11	.24	.23	.35	.31	.07	–.24	–.08	.17	.01
FSIQ	–.27	.20	.09	.36	.31	.31	–.13	–.20	–.29	.11	.21
QRI	–.16	.16	.01	.38	.23	.19	–.17	–.24	–.26	.06	.23
AWMI	–.31	.26	.14	.41	.30	.23	–.31	–.36	–.41	.22	.39
NVI	–.42	.04	–.05	.20	.20	.26	–.07	–.14	–.37	.18	.21
GAI	–.20	.21	.05	.34	.28	.26	–.11	–.19	–.19	.06	.22
CPI	–.33	–.02	.15	.21	.31	.19	–.08	–.25	–.25	.21	.22
BASC–2 PRS											
Mean	67.4	52.4	53.0	53.0	59.6	53.6	78.9	73.7	64.9	33.5	35.1
SD	12.3	8.3	8.5	13.4	11.5	11.4	19.1	14.5	8.8	10.5	10.4
n	27	27	27	27	27	27	27	27	27	27	27

Table 16 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder With Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale									
	Leadership	Activities of Daily Living	Functional Communication	Anger Control	Bullying	Developmental Social Disorders	Emotional Self-Control	Executive Functioning	Negative Emotionality	Resiliency
SI	.56	.15	.64	.03	–.10	–.31	.03	–.13	.25	.12
VC	.45	.12	.53	.07	.13	–.24	.21	.03	.17	.12
IN	.47	.30	.59	.05	.04	–.32	–.16	–.16	.05	.16
CO	.46	.23	.61	.04	–.03	–.25	.06	–.08	.09	.16
BD	.42	.39	.53	.03	–.03	–.23	.03	–.15	.12	.10
VP	.49	.49	.44	–.10	–.13	–.25	.09	–.20	.25	.15
MR	.41	.37	.34	–.28	–.22	–.23	–.09	–.35	–.07	.12
FW	.48	.38	.44	–.18	–.16	–.24	.04	–.18	.21	.20
PC	.59	.44	.70	–.18	–.20	–.57	–.16	–.29	.13	.38
AR	.60	.37	.69	–.06	–.03	–.43	–.01	–.21	.14	.26
DS	.69	.47	.77	–.16	–.07	–.52	–.12	–.30	–.01	.37
PS	.42	.51	.36	–.35	–.32	–.29	–.16	–.40	.00	.20
LN	.49	.42	.65	–.11	–.13	–.43	–.10	–.28	.01	.30
CD	.12	.23	.18	–.27	–.18	–.19	–.13	–.31	–.22	.15
SS	.20	.00	.35	–.14	–.21	–.16	–.05	–.15	–.21	.15
CA	.14	.15	.29	–.20	–.13	–.27	–.10	–.23	–.32	.18
VCI	.57	.13	.69	.07	–.02	–.31	.11	–.07	.19	.16
VSI	.50	.53	.54	–.08	–.15	–.29	.03	–.24	.17	.17
FRI	.48	.40	.42	–.24	–.21	–.25	–.03	–.29	.07	.16
WMI	.63	.55	.65	–.29	–.24	–.47	–.16	–.40	.00	.33
PSI	.16	.06	.28	–.19	–.19	–.14	–.06	–.22	–.23	.12
FSIQ	.58	.38	.66	–.13	–.14	–.34	–.02	–.27	.07	.24
QRI	.56	.39	.59	–.11	–.10	–.34	.03	–.20	.20	.23
AWMI	.61	.47	.74	–.16	–.13	–.50	–.10	–.30	–.01	.35
NVI	.48	.56	.51	–.29	–.34	–.34	–.14	–.42	–.01	.29
GAI	.58	.35	.65	–.09	–.13	–.28	.02	–.23	.13	.19
CPI	.44	.33	.53	–.28	–.23	–.32	–.13	–.35	–.17	.24
BASC–2 PRS										
Mean	32.3	30.7	27.2	65.1	57.8	75.8	65.4	67.9	63.8	28.0
SD	9.6	12.7	11.3	8.9	8.3	12.7	11.0	8.6	8.9	10.5
n	27	27	27	27	27	27	27	27	27	27

Table 16 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder With Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Composite				WISC–V		
	Adaptive Skills	Behavioral Symptoms Index	Externalizing Problems	Internalizing Problems	Mean	*SD*	*n*
SI	.41	–.15	.04	.27	6.2	3.4	26
VC	.31	.03	.22	.42	5.6	3.3	26
IN	.41	–.15	.12	.29	5.5	3.5	26
CO	.40	–.06	.05	.33	4.5	2.9	27
BD	.35	–.05	.09	.29	7.0	4.2	27
VP	.40	.01	.02	.46	6.7	4.5	26
MR	.35	–.09	–.11	.28	7.1	4.3	27
FW	.39	–.08	–.06	.36	7.4	3.7	27
PC	.54	–.40	–.11	.09	6.0	4.6	26
AR	.48	–.23	.01	.20	5.0	3.4	27
DS	.61	–.28	.02	.32	5.2	4.0	27
PS	.40	–.18	–.31	.10	6.8	4.0	27
LN	.47	–.24	–.06	.27	4.9	3.7	26
CD	.17	–.10	–.23	.30	5.2	3.5	26
SS	.21	–.10	.01	.25	6.2	3.6	23
CA	.22	–.23	–.20	.12	6.0	3.4	27
VCI	.42	–.10	.10	.32	78.2	17.9	25
VSI	.44	–.06	.02	.39	82.2	23.1	26
FRI	.40	–.09	–.09	.34	84.4	21.2	27
WMI	.58	–.28	–.18	.23	76.9	20.2	27
PSI	.18	–.05	–.07	.33	76.1	18.2	23
FSIQ	.48	–.13	–.04	.38	75.2	19.6	25
QRI	.45	–.15	–.03	.31	78.0	19.4	27
AWMI	.57	–.26	–.02	.36	71.3	22.5	26
NVI	.48	–.20	–.24	.25	79.9	20.8	25
GAI	.46	–.09	–.01	.34	80.6	19.0	25
CPI	.42	–.16	–.12	.27	74.2	18.7	23
BASC–2 PRS							
Mean	28.7	70.9	58.5	56.7			
SD	10.8	10.8	8.5	13.3			
n	27	27	27	27			

Table 17 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Autism Spectrum Disorder With Language Impairment Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale										
	Hyperactivity	Aggression	Conduct Problems	Anxiety	Depression	Somatization	Atypicality	Withdrawal	Attention Problems	Adaptability	Social Skills
NSL	–.55	–.02	–.24	.05	.05	–.10	–.40	–.51	–.31	.41	.51
NSQ	–.42	.02	.00	.14	.17	–.09	–.46	–.51	–.37	.32	.48
IST	–.45	.11	.16	.50	.32	.19	–.17	–.17	–.59	.44	.52
DST	–.40	.14	.18	.50	.34	.12	–.20	–.09	–.49	.32	.42
RST	–.40	.20	.21	.47	.27	.16	–.29	–.25	–.59	.46	.56
NSI	–.54	–.03	–.13	.05	.08	–.12	–.52	–.55	–.40	.40	.55
STI	–.40	.17	.20	.50	.34	.16	–.20	–.16	–.56	.39	.50
SRI	–.51	.17	.06	.33	.23	–.01	–.42	–.47	–.66	.50	.66
BASC–2 PRS											
Mean	67.4	52.4	53.0	53.0	59.6	53.6	78.9	73.7	64.9	33.5	35.1
SD	12.3	8.3	8.5	13.4	11.5	11.4	19.1	14.5	8.8	10.5	10.4
n	27	27	27	27	27	27	27	27	27	27	27

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale									
	Leadership	Activities of Daily Living	Functional Communication	Anger Control	Bullying	Developmental Social Disorders	Emotional Self-Control	Executive Functioning	Negative Emotionality	Resiliency
NSL	.53	.35	.67	–.20	–.39	–.53	–.31	–.45	–.21	.43
NSQ	.49	.26	.53	–.12	–.22	–.56	–.24	–.35	–.17	.39
IST	.58	.69	.48	–.38	–.31	–.48	–.20	–.42	–.21	.46
DST	.49	.62	.39	–.24	–.22	–.42	–.21	–.36	–.14	.35
RST	.62	.59	.53	–.23	–.25	–.56	–.18	–.40	–.17	.49
NSI	.55	.33	.67	–.19	–.32	–.62	–.33	–.46	–.26	.45
STI	.58	.63	.46	–.27	–.24	–.47	–.17	–.39	–.16	.42
SRI	.71	.58	.67	–.28	–.22	–.66	–.25	–.49	–.26	.57
BASC–2 PRS										
Mean	32.3	30.7	27.2	65.1	57.8	75.8	65.4	67.9	63.8	28.0
SD	9.6	12.7	11.3	8.9	8.3	12.7	11.0	8.6	8.9	10.5
n	27	27	27	27	27	27	27	27	27	27

Table 17 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Autism Spectrum Disorder With Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Composite				WISC–V		
	Adaptive Skills	Behavioral Symptoms Index	Externalizing Problems	Internalizing Problems	Mean	*SD*	*n*
NSL	.58	–.46	–.39	.00	81.1	18.7	25
NSQ	.49	–.44	–.22	.09	75.8	20.9	25
IST	.64	–.25	–.15	.39	84.9	25.1	25
DST	.53	–.20	–.10	.37	88.8	21.4	25
RST	.65	–.31	–.07	.35	88.2	23.2	25
NSI	.58	–.53	–.34	.01	78.8	16.2	25
STI	.61	–.23	–.09	.39	87.7	21.6	25
SRI	.73	–.45	–.19	.22	82.1	16.3	23
BASC–2 PRS							
Mean	28.7	70.9	58.5	56.7			
SD	10.8	10.8	8.5	13.3			
n	27	27	27	27			

The mean WISC–V composite and subtest scores are in the very low to low average range. The BASC–2 PRS scores range from 27.2 (Functional Communication) to 78.9 (Atypicality). Unlike other clinical and typically developing samples, the pattern of correlations in the ASD-L group ranges from low to high with positive and negative associations. The results for the BASC–2 composite scores (i.e., Adaptive Skills, Behavioral Symptom Index, Externalizing Problems, and Internalizing Problems) indicate that cognitive skills are more highly related to adaptive functioning than to negative behaviors, and that language automaticity and memory functioning are generally more related to observed behaviors than other cognitive measures (the SRI–Adaptive Skills Index correlation is .73). Among the composite behavioral symptom scales, low scores on language automaticity and memory were associated with more behavioral symptoms in general.

The highest correlations occur between WISC–V and Functional Communication, Leadership, Attention Problems, and Daily Living. Functional Communication and Leadership are related to a number of cognitive processing index scores including the VCI, WMI, AWMI, NSI, and SRI. Children with deficits in verbal problem solving, auditory working memory, automaticity of language, and memory are rated by parents as having difficulty with day to day communication and have difficulty working under pressure, being creative, and getting work completed. Children with ASD-L who have deficits in language automaticity and memory are also rated as having more problems with attention, social skills and resiliency. Working memory ability is also associated with attention problems. Children with better cognitive skills on Vocabulary, Comprehension, Visual Puzzles, Figure Weights, and the Symbol Translation subtests appear more anxious than children who have lower scores on those measures.

The correlations of the WISC–V with the BASC–2 content scales indicate moderate relations between WISC–V complementary measures and BASC–2 parent ratings. Specifically, low scores on language automaticity and memory functioning are related to higher scores on the Developmental Social Disorders or Executive Functioning scales. Children showing deficits in automaticity of language and memory have more observable symptoms of a developmental disorder and executive functioning deficits.

These results show that in a complex disorder with both cognitive and behavioral impairments, cognitive difficulties are related to observable differences in behavior. In particular, cognitive abilities relate to adaptive behaviors such that low ability is associated with observable deficits in communication, social skills, resiliency, and leadership skills. Among the WISC–V measures, Naming Speed Literacy and the Symbol Translation subtests are most consistently related to both adaptive functioning and behavior symptoms. Language automaticity and memory deficits are more associated with attention and social skills problems, and a lack of resiliency.

Correlations With the BASC–2 PRS

Children diagnosed with ASD-NL have multiple behavioral and cognitive symptoms which can be evaluated with the BASC–2 (see Children With Autism Spectrum Disorder in Chapter 5 of the *Tech Manual* for symptom review). For the sample reported in the *Tech Manual*, children diagnosed with ASD-NL show weaknesses on the WMI, AWMI and NSI compared with matched controls.

The WISC–V and the full BASC–2 PRS were administered to 30 children diagnosed with ASD-NL, aged 7–15, and their caregivers, with a testing interval from 0–35 days and a mean testing interval of 5 days. Tables 18 and 19 present the means, *SD*s, and correlation coefficients between the WISC–V and BASC–2 PRS. The BASC–2 PRS scores reported here include: Hyperactivity, Aggression, Conduct Problems, Anxiety, Depression, Somatization, Atypicality, Withdrawal, Attention Problems, Adaptability, Social Skills, Leadership, Activities of Daily Living, Functional Communication, Anger Control, Bullying, Developmental Social Disorders, Emotional Self-Control, Executive Functioning, Negative Emotionality, Resiliency, Adaptive Skills, Behavioral Symptom Index, Externalizing Problems, and Internalizing Problems. The correlations are not corrected as the range of scores on the WISC–V was not greatly restricted in this study.

Table 18 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder Without Language Impairment Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale										
	Hyperactivity	Aggression	Conduct Problems	Anxiety	Depression	Somatization	Atypicality	Withdrawal	Attention Problems	Adaptability	Social Skills
SI	.29	–.09	.04	–.03	–.02	.10	.07	.26	.06	.09	–.10
VC	.07	.02	.00	–.06	–.04	–.17	–.02	.27	–.01	.24	–.27
IN	.05	–.04	–.08	–.15	–.18	–.32	–.02	.32	.06	.28	–.41
CO	.18	.00	–.01	–.03	–.01	.00	.08	.10	.00	.14	–.19
BD	.06	–.02	–.15	–.30	–.09	–.11	–.13	.20	–.04	–.07	–.38
VP	.17	–.04	–.01	–.06	–.06	–.04	–.05	.20	–.03	.01	–.08
MR	.17	–.11	–.18	–.06	–.07	–.07	–.13	–.02	–.04	.02	–.03
FW	–.15	–.08	–.04	–.21	–.27	–.25	–.29	.06	–.36	.25	–.10
PC	.17	.11	.13	.05	.10	–.12	.13	.20	.08	–.03	–.39
AR	.07	.13	.12	–.16	–.15	–.22	–.17	.22	.02	–.04	–.33
DS	–.06	–.30	–.17	–.20	–.38	–.23	–.08	.13	–.07	.16	–.09
PS	.09	.07	.04	–.04	–.12	–.32	–.10	–.08	.11	.04	–.10
LN	–.15	.00	–.11	–.23	–.27	–.15	–.02	.20	–.33	.02	–.36
CD	.21	.16	.13	.00	.03	.24	.09	.04	–.15	–.06	–.16
SS	.25	.21	.20	–.11	–.05	.05	.02	–.11	.01	.01	–.05
CA	.26	–.03	.12	–.24	–.07	–.10	.14	–.26	.33	.17	.06
VCI	.18	–.07	–.01	–.03	.01	–.04	.03	.36	.01	.15	–.22
VSI	.11	–.03	–.10	–.20	–.09	–.09	–.10	.22	–.04	–.04	–.27
FRI	–.01	–.11	–.12	–.17	–.21	–.20	–.26	.02	–.26	.18	–.07
WMI	.00	–.15	–.08	–.15	–.31	–.32	–.12	.04	.01	.12	–.12
PSI	.24	.18	.17	–.05	–.04	.14	.05	–.06	–.07	–.02	–.09
FSIQ	.06	–.14	–.13	–.16	–.21	–.13	–.11	.17	–.14	.12	–.19
QRI	–.03	.04	.05	–.20	–.22	–.27	–.24	.16	–.17	.11	–.25
AWMI	–.11	–.17	–.15	–.24	–.36	–.21	–.06	.20	–.21	.09	–.27
NVI	.11	–.01	–.06	–.13	–.15	–.13	–.14	.07	–.13	.05	–.17
GAI	.09	–.08	–.10	–.16	–.12	–.13	–.14	.21	–.13	.11	–.22
CPI	.15	.03	.05	–.11	–.18	–.08	–.01	.00	–.03	.04	–.13
BASC–2 PRS											
Mean	64.7	55.3	56.8	57.0	61.0	52.5	71.4	68.5	65.5	38.0	40.3
SD	14.3	15.3	15.9	11.0	14.0	12.1	12.2	13.7	7.2	8.7	11.0
n	30	30	30	30	30	30	30	30	30	30	30

Table 18 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder Without Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale									
	Leadership	Activities of Daily Living	Functional Communication	Anger Control	Bullying	Developmental Social Disorders	Emotional Self-Control	Executive Functioning	Negative Emotionality	Resiliency
SI	.27	–.07	.22	.04	–.12	.21	.31	.22	.20	.02
VC	.01	–.02	.23	.01	–.05	.23	.15	.18	.08	.07
IN	–.09	–.13	.18	–.03	–.14	.30	.07	.07	–.01	.07
CO	.13	–.02	.27	.02	–.06	.10	.26	.16	.15	.06
BD	–.08	–.15	–.05	.00	–.04	.25	.22	.10	.03	–.27
VP	.20	.01	.21	.04	–.11	.11	.22	.18	.12	.00
MR	.26	–.07	.24	–.02	–.14	.05	.17	.03	–.02	–.08
FW	–.04	.16	.07	–.13	–.19	–.15	–.02	–.16	–.09	.06
PC	–.26	–.15	–.15	.13	.07	.41	.30	.20	.16	–.21
AR	–.10	–.08	–.13	.11	.04	.30	.19	.17	.11	–.16
DS	–.04	–.11	.00	–.24	–.39	.08	–.05	–.10	–.11	.12
PS	.02	.08	.26	.12	.08	.05	.10	.11	.01	–.02
LN	–.15	.04	–.17	–.13	–.05	.13	.10	–.04	–.09	–.04
CD	.15	.00	–.05	.14	.16	.12	.26	.17	.06	–.01
SS	.23	–.05	–.01	.19	.21	.01	.28	.27	.12	.05
CA	.08	–.15	–.10	.05	.06	.14	.05	.09	–.11	–.01
VCI	.10	–.04	.21	.01	–.14	.30	.26	.20	.17	–.04
VSI	.05	–.09	.07	.02	–.08	.21	.23	.14	.07	–.16
FRI	.11	.06	.17	–.10	–.19	–.08	.07	–.09	–.07	.00
WMI	–.02	–.01	.15	–.09	–.20	.07	.02	.00	–.07	.06
PSI	.21	–.02	–.01	.16	.18	.06	.28	.22	.08	.03
FSIQ	.08	–.06	.09	–.10	–.22	.13	.15	.02	–.01	–.04
QRI	–.07	.03	–.04	.00	–.07	.10	.11	.02	.03	–.07
AWMI	–.11	–.03	–.10	–.20	–.25	.14	.04	–.07	–.10	.02
NVI	.12	.00	.15	.02	–.06	.06	.19	.08	.01	–.06
GAI	.09	–.03	.15	–.04	–.16	.14	.20	.07	.06	–.08
CPI	.10	–.04	.04	.06	.00	.09	.19	.15	.03	.03
BASC–2 PRS										
Mean	37.6	33.0	35.1	63.2	58.3	70.4	60.8	64.2	57.7	33.4
SD	8.4	7.9	9.6	11.8	15.0	9.8	12.8	10.7	11.9	8.1
n	30	30	30	30	30	30	30	30	30	30

Table 18 Correlations Between the WISC–V and the BASC–2 PRS for the Autism Spectrum Disorder Without Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Composite				WISC–V		
	Adaptive Skills	Behavioral Symptoms Index	Externalizing Problems	Internalizing Problems	Mean	*SD*	*n*
SI	.12	.14	.08	.03	10.6	3.5	29
VC	.06	.08	.03	–.10	9.6	2.9	30
IN	–.05	.04	–.03	–.26	10.0	3.8	30
CO	.10	.09	.06	–.01	8.5	3.1	30
BD	–.22	.00	–.05	–.19	9.6	3.6	30
VP	.11	.06	.04	–.06	10.5	3.0	30
MR	.13	–.06	–.05	–.08	9.7	2.8	30
FW	.09	–.25	–.10	–.30	9.8	3.4	30
PC	–.30	.20	.15	.02	9.5	3.1	30
AR	–.20	.03	.11	–.21	10.3	3.9	30
DS	–.02	–.21	–.20	–.33	8.9	3.6	30
PS	.09	–.02	.07	–.20	8.9	3.3	30
LN	–.20	–.11	–.09	–.27	8.5	3.6	30
CD	–.04	.13	.18	.11	7.4	3.0	29
SS	.04	.10	.24	–.05	8.2	3.4	30
CA	.02	.06	.12	–.16	9.7	3.5	30
VCI	.06	.13	.03	–.01	100.9	15.3	29
VSI	–.08	.03	–.01	–.14	100.1	17.2	30
FRI	.13	–.19	–.09	–.23	98.6	15.9	30
WMI	.04	–.15	–.09	–.32	93.6	17.0	30
PSI	.02	.10	.21	.02	87.6	17.1	29
FSIQ	.02	–.09	–.08	–.19	96.3	18.0	28
QRI	–.07	–.10	.02	–.28	100.2	18.7	30
AWMI	–.13	–.17	–.16	–.33	92.5	17.6	30
NVI	.05	–.06	.01	–.16	95.4	17.5	29
GAI	.03	–.03	–.04	–.16	99.4	17.0	29
CPI	.01	–.01	.08	–.15	88.9	17.7	29
BASC–2 PRS							
Mean	34.5	68.5	60.0	58.4			
SD	7.3	10.9	15.3	12.8			
n	30	30	30	30			

Table 19 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Autism Spectrum Disorder Without Language Impairment Group

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale										
	Hyperactivity	Aggression	Conduct Problems	Anxiety	Depression	Somatization	Atypicality	Withdrawal	Attention Problems	Adaptability	Social Skills
NSL	–.10	.21	.00	–.41	–.19	–.30	–.09	.13	.14	–.07	–.45
NSQ	.06	.24	.14	–.25	–.02	–.18	.00	.00	–.02	–.06	–.33
IST	–.01	–.14	–.16	.02	–.07	–.14	.13	.12	–.05	.03	–.16
DST	.00	–.10	–.19	–.05	–.07	–.25	.07	.13	.03	–.05	–.17
RST	–.02	–.21	–.22	.00	–.01	–.16	.09	.23	.02	.16	–.20
NSI	.01	.26	.11	–.33	–.10	–.25	–.04	.03	.07	–.07	–.38
STI	–.04	–.17	–.24	–.06	–.09	–.24	.10	.18	.01	.06	–.21
SRI	–.05	.03	–.14	–.29	–.15	–.33	.04	.15	.06	.04	–.38
BASC–2 PRS											
Mean	64.7	55.3	56.8	57.0	61.0	52.5	71.4	68.5	65.5	38.0	40.3
SD	14.3	15.3	15.9	11.0	14.0	12.1	12.2	13.7	7.2	8.7	11.0
n	30	30	30	30	30	30	30	30	30	30	30

WISC–V Subtest/ Composite Score	BASC–2 PRS Scale									
	Leadership	Activities of Daily Living	Functional Communication	Anger Control	Bullying	Developmental Social Disorders	Emotional Self-Control	Executive Functioning	Negative Emotionality	Resiliency
NSL	–.36	–.09	–.28	–.02	.17	.25	.14	.19	.11	–.26
NSQ	–.24	–.02	–.32	.09	.24	.23	.23	.21	.09	–.27
IST	–.09	–.04	.11	–.11	–.18	.15	.09	.01	–.04	–.10
DST	–.12	–.04	.13	–.09	–.16	.17	.13	.07	.02	–.16
RST	–.15	.04	.16	–.07	–.22	.27	.05	.04	–.11	–.08
NSI	–.27	–.07	–.33	.06	.24	.24	.21	.23	.12	–.28
STI	–.16	–.08	.12	–.13	–.22	.22	.06	.02	–.08	–.10
SRI	–.28	–.15	–.10	–.07	–.03	.28	.12	.12	–.02	–.20
BASC–2 PRS										
Mean	37.6	33.0	35.1	63.2	58.3	70.4	60.8	64.2	57.7	33.4
SD	8.4	7.9	9.6	11.8	15.0	9.8	12.8	10.7	11.9	8.1
n	30	30	30	30	30	30	30	30	30	30

Table 19 Correlations Between WISC–V Complementary Scores and the BASC–2 PRS for the Autism Spectrum Disorder Without Language Impairment Group *(continued)*

WISC–V Subtest/ Composite Score	BASC–2 PRS Composite				WISC–V		
	Adaptive Skills	Behavioral Symptoms Index	Externalizing Problems	Internalizing Problems	Mean	*SD*	*n*
NSL	–.37	.02	.04	–.35	93.5	14.3	30
NSQ	–.28	.08	.16	–.17	90.8	16.3	30
IST	–.03	–.01	–.11	–.07	101.8	17.8	30
DST	–.06	.00	–.11	–.14	102.8	18.2	30
RST	.01	.01	–.17	–.06	104.2	17.1	28
NSI	–.33	.06	.13	–.27	91.3	14.5	30
STI	–.07	–.02	–.17	–.15	103.9	19.0	28
SRI	–.25	.01	–.06	–.30	97.0	16.6	28
BASC–2 PRS							
Mean	34.5	68.5	60.0	58.4			
SD	7.3	10.9	15.3	12.8			
n	30	30	30	30			

The mean WISC–V composite scores are in the low average to average range. The BASC–2 PRS scores range from 33.0 (Activities of Daily Living) to 71.4 (Atypicality). The results indicate low negative correlations are present between the WISC–V and the BASC–2 PRS problem behavior scores and positive with the adaptive behavior measures. Moderate correlations are observed between the Naming Speed Literacy subtest and the BASC–2 Anxiety and Social Skills scales. A few other moderate correlations are observed between the measures. However, given the large number of correlations and the small sample size, they may not be meaningful. In general, there are no strong associations between the WISC–V and the BASC–2 PRS in the ASD-NL group.

These results suggest that for children with ASD-NL, cognitive abilities share low levels of association with behavioral symptoms and adaptive functioning, as assessed with a parent report measure. In the ASD-NL sample, observable behavior problems may not relate to severity of cognitive difficulties.

Summary

Results from these correlation studies of other measures with WISC–V in special groups provide additional support for the validity and clinical utility of the WISC–V. In particular, there is strong support for the new subtests and composites. In addition, the studies illustrate that the WISC–V is correlated with academic performance in children with neurodevelopmental disabilities. The studies also demonstrate that in clinical samples with a high degree of cognitive and behavioral variability, the WISC–V is associated with adaptive functioning and behavioral concerns. In particular, the new complementary measures are related to both academic and behavioral measures. The results are generally consistent with expectations based on previous research and theoretical foundations. It is expected that future investigations utilizing the WISC–V in different clinical settings and populations will provide additional evidence of the scale's utility when used as part of a comprehensive clinical evaluation for diagnosis and intervention purposes.

Appendix F

WISC–V Stability Coefficients, by Age Group

Table F.1 Stability Coefficients of Subtest, Process, and Composite Scores, by Age Group

Ages 6–7	First Testing		Second Testing					
Subtest/Process/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r* [a]	Standard Difference[b]
SI	9.3	2.4	10.5	1.8	33	.66	.78	.57
VC	9.0	2.7	9.7	2.8	37	.78	.82	.25
IN	9.4	2.9	10.0	2.4	37	.80	.81	.23
CO	9.5	2.5	10.1	2.3	36	.68	.78	.25
BD	8.9	2.7	10.5	2.7	34	.75	.80	.59
VP	9.7	2.7	10.4	2.8	37	.78	.82	.25
MR	9.0	2.3	10.8	2.5	34	.58	.75	.75
FW	9.4	2.8	9.5	2.6	34	.79	.82	.04
PC	10.0	2.4	10.6	2.7	33	.50	.68	.23
AR	9.9	2.0	10.6	2.1	36	.62	.83	.34
DS	9.8	2.8	9.5	2.6	36	.77	.80	–.11
PS	9.5	2.7	9.6	2.7	36	.77	.81	.04
LN	9.4	2.8	9.4	3.1	33	.79	.82	.00
CD	8.9	2.7	10.4	3.5	36	.73	.78	.48
SS	9.4	2.5	11.6	3.7	36	.76	.83	.70
CA	10.1	2.5	10.9	3.0	36	.71	.80	.29
BDn	8.9	2.8	10.7	3.0	34	.77	.80	.62
BDp	9.0	2.6	10.5	2.4	35	.77	.83	.60
DSf	9.7	2.3	9.7	2.7	35	.70	.82	.00
DSb	9.8	2.7	9.5	3.1	35	.76	.81	–.10
DSs	9.4	3.1	9.5	2.6	32	.74	.72	.03
CAr	10.3	2.4	10.8	2.7	33	.69	.80	.20
CAs	9.8	2.4	10.8	3.0	36	.69	.80	.37
VCI	95.2	11.4	101.0	10.7	36	.78	.87	.52
VSI	94.8	14.0	102.6	13.0	37	.82	.84	.58
FRI	95.6	14.3	100.4	12.7	37	.65	.68	.35
WMI	98.1	14.7	96.9	12.9	36	.83	.84	–.09
PSI	96.6	14.2	107.2	18.6	36	.82	.84	.64
FSIQ	93.9	12.6	101.4	12.0	35	.86	.90	.61
QRI	97.9	11.1	99.7	11.2	37	.61	.79	.16
AWMI	96.8	13.7	97.2	13.7	36	.81	.84	.03
NVI	94.4	13.2	101.5	13.4	37	.80	.85	.53
GAI	93.9	12.4	101.8	10.8	36	.80	.86	.68
CPI	96.7	14.7	102.7	15.7	35	.87	.88	.39

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.1 Stability Coefficients of Subtest, Process, and Composite Scores, by Age Group *(continued)*

Ages 8–9	First Testing		Second Testing					
Subtest/Process/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r* [a]	Standard Difference[b]
SI	10.0	2.0	10.6	2.5	42	.74	.88	.27
VC	9.7	2.7	9.9	2.8	43	.89	.91	.07
IN	9.7	2.4	10.4	2.5	43	.83	.89	.29
CO	9.8	2.5	10.3	2.9	43	.78	.85	.18
BD	9.9	2.8	11.4	3.1	41	.80	.83	.51
VP	10.1	3.0	11.5	3.0	39	.73	.73	.47
MR	10.1	2.3	10.7	2.3	40	.56	.74	.26
FW	10.6	2.7	11.0	2.7	42	.83	.86	.15
PC	10.3	3.1	11.2	2.7	39	.56	.53	.31
AR	10.1	2.2	10.6	2.6	39	.66	.82	.21
DS	10.1	2.8	10.3	3.3	42	.79	.82	.07
PS	10.5	2.6	10.6	2.3	39	.56	.67	.04
LN	10.0	2.9	10.2	3.0	41	.77	.79	.07
CD	10.3	2.9	11.8	2.9	43	.78	.79	.52
SS	10.1	2.6	11.4	2.7	40	.74	.80	.49
CA	10.6	2.9	11.6	2.7	41	.82	.83	.36
BDn	9.8	3.0	11.4	3.4	42	.79	.79	.50
BDp	10.0	3.1	11.0	3.3	40	.81	.80	.31
DSf	10.1	2.6	10.3	3.0	43	.81	.86	.07
DSb	10.4	2.5	10.4	2.7	39	.73	.81	.00
DSs	9.7	3.0	10.4	3.3	39	.75	.75	.22
CAr	10.4	3.0	11.6	2.7	39	.82	.82	.42
CAs	10.6	2.5	11.6	2.6	41	.74	.82	.39
VCI	99.4	11.6	101.7	13.4	42	.92	.95	.18
VSI	101.0	15.8	108.6	15.6	43	.82	.80	.48
FRI	102.4	13.0	105.2	11.9	43	.70	.77	.22
WMI	100.5	14.1	102.7	13.1	43	.70	.73	.16
PSI	101.2	13.7	108.8	13.2	42	.77	.81	.56
FSIQ	101.5	13.2	106.2	13.5	42	.91	.93	.35
QRI	102.2	13.7	104.2	13.7	43	.81	.84	.15
AWMI	100.0	14.1	100.7	16.3	43	.84	.86	.05
NVI	101.7	14.0	108.9	12.4	43	.83	.85	.54
GAI	101.0	13.1	105.2	13.3	42	.91	.93	.32
CPI	100.6	14.6	106.7	13.8	42	.84	.85	.43

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.1 Stability Coefficients of Subtest, Process, and Composite Scores, by Age Group *(continued)*

Ages 10–11	First Testing		Second Testing					
Subtest/Process/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r* [a]	Standard Difference[b]
SI	9.7	3.0	10.3	2.7	40	.89	.89	.21
VC	9.6	3.0	9.7	3.0	39	.92	.92	.03
IN	9.9	2.6	10.2	2.5	40	.88	.91	.12
CO	9.9	3.5	9.8	3.3	37	.90	.86	–.03
BD	9.7	2.8	10.9	3.3	35	.78	.81	.39
VP	10.2	3.0	11.2	2.9	39	.83	.83	.34
MR	9.5	2.4	10.1	2.3	38	.69	.80	.26
FW	10.7	2.4	11.4	2.4	38	.73	.83	.29
PC	9.6	2.8	10.2	3.2	38	.77	.80	.20
AR	9.0	2.6	9.6	2.5	38	.80	.85	.24
DS	9.4	2.7	9.4	2.8	39	.79	.83	.00
PS	9.5	2.5	10.0	2.6	39	.75	.83	.20
LN	9.7	2.7	9.8	2.6	40	.80	.84	.04
CD	9.5	2.8	11.1	2.8	40	.78	.81	.57
SS	10.4	3.4	11.8	3.0	37	.84	.79	.44
CA	8.9	2.7	10.5	2.7	39	.80	.84	.59
BDn	10.1	2.8	11.1	3.0	36	.74	.77	.34
BDp	10.2	3.4	10.8	3.5	36	.86	.82	.17
DSf	9.9	3.1	9.9	3.3	39	.80	.79	.00
DSb	9.9	2.9	9.9	2.5	36	.62	.64	.00
DSs	9.0	2.3	9.5	2.8	39	.71	.83	.20
CAr	8.9	2.7	10.6	2.4	38	.77	.81	.67
CAs	9.2	2.7	10.3	2.8	38	.78	.82	.40
VCI	98.1	15.2	100.2	14.4	39	.93	.93	.14
VSI	99.6	15.4	106.2	15.6	39	.82	.81	.43
FRI	100.3	14.1	104.0	12.4	40	.78	.81	.28
WMI	97.1	13.6	98.6	14.1	40	.81	.84	.11
PSI	100.1	15.9	108.9	15.3	38	.79	.76	.56
FSIQ	97.7	15.5	102.9	14.4	38	.92	.91	.35
QRI	98.7	13.7	102.5	11.8	40	.84	.87	.30
AWMI	97.2	13.0	98.1	13.4	40	.84	.88	.07
NVI	98.9	15.3	105.4	14.7	39	.87	.86	.43
GAI	98.5	15.7	103.1	13.9	38	.92	.91	.31
CPI	98.6	13.9	104.6	14.5	38	.79	.82	.42

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.1 Stability Coefficients of Subtest, Process, and Composite Scores, by Age Group *(continued)*

Ages 12–13	First Testing		Second Testing					
Subtest/Process/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r* [a]	Standard Difference[b]
SI	9.7	2.6	10.3	2.5	42	.88	.91	.24
VC	9.9	2.6	10.2	2.6	42	.88	.91	.12
IN	9.6	2.7	10.2	2.8	42	.84	.87	.22
CO	10.5	2.8	10.5	3.0	42	.81	.83	.00
BD	9.3	3.4	10.5	3.5	42	.84	.79	.35
VP	10.0	2.6	10.6	2.9	41	.71	.78	.22
MR	10.1	2.4	11.0	2.2	39	.66	.78	.39
FW	9.5	2.5	10.3	2.6	39	.71	.80	.31
PC	9.5	2.1	10.3	2.6	40	.59	.80	.34
AR	10.0	3.0	10.2	2.4	38	.80	.80	.07
DS	9.7	2.9	10.5	3.0	41	.79	.80	.27
PS	9.6	2.8	10.1	2.6	40	.77	.80	.19
LN	9.8	2.8	10.4	2.4	42	.77	.80	.23
CD	10.8	2.9	11.5	2.9	41	.81	.82	.24
SS	10.3	2.8	12.0	3.2	40	.62	.67	.57
CA	9.7	2.9	11.6	3.9	41	.80	.81	.55
BDn	9.6	3.3	10.5	3.5	41	.85	.82	.26
BDp	9.9	3.5	10.9	3.5	41	.88	.84	.29
DSf	9.7	2.8	10.0	2.9	40	.71	.75	.11
DSb	10.0	2.9	10.9	2.8	40	.78	.79	.32
DSs	9.4	2.4	9.9	2.9	39	.76	.85	.19
CAr	10.2	2.9	11.3	3.4	38	.79	.80	.35
CAs	9.8	3.0	10.9	3.5	41	.82	.82	.34
VCI	99.0	12.8	101.4	12.7	42	.92	.94	.19
VSI	98.1	14.8	103.1	15.9	42	.88	.88	.33
FRI	98.9	11.5	105.1	13.0	42	.61	.77	.51
WMI	97.5	13.7	102.2	13.9	42	.79	.82	.34
PSI	103.6	15.4	109.7	15.6	41	.79	.78	.39
FSIQ	99.0	12.9	104.8	13.3	42	.92	.94	.44
QRI	98.1	13.9	102.7	14.3	41	.77	.80	.33
AWMI	98.6	13.1	102.5	13.5	42	.86	.89	.29
NVI	98.9	13.1	105.4	13.3	42	.89	.92	.49
GAI	98.1	13.0	103.6	13.8	42	.89	.92	.41
CPI	100.5	14.3	107.2	13.2	41	.81	.83	.49

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.1 Stability Coefficients of Subtest, Process, and Composite Scores, by Age Group *(continued)*

Ages 14–16	First Testing		Second Testing					
Subtest/Process/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r* [a]	Standard Difference[b]
SI	9.9	2.4	10.9	2.6	56	.86	.91	.40
VC	9.9	2.8	10.2	2.9	56	.92	.93	.11
IN	9.9	3.0	10.6	3.1	56	.89	.89	.23
CO	10.1	3.0	10.1	2.7	56	.80	.80	.00
BD	9.9	2.5	10.8	2.9	56	.77	.84	.33
VP	9.7	2.9	11.1	3.0	54	.81	.82	.47
MR	9.3	2.6	10.7	3.2	51	.75	.81	.48
FW	9.8	2.6	10.2	2.5	51	.72	.79	.16
PC	9.8	2.9	11.1	3.0	53	.68	.70	.44
AR	10.0	2.4	10.2	3.0	54	.80	.87	.07
DS	9.9	2.9	10.7	3.2	56	.83	.84	.26
PS	9.6	2.1	10.3	2.7	54	.70	.85	.29
LN	10.2	2.4	10.9	2.8	56	.73	.83	.27
CD	10.3	2.9	11.4	3.5	56	.85	.86	.34
SS	9.7	2.3	11.0	3.2	56	.78	.87	.47
CA	9.8	3.1	11.1	3.5	52	.82	.81	.39
BDn	9.5	2.2	10.5	3.0	54	.70	.84	.38
BDp	9.9	2.7	10.9	3.0	56	.85	.88	.35
DSf	10.1	2.7	10.8	2.9	56	.84	.87	.25
DSb	9.4	2.8	10.0	3.0	51	.68	.72	.21
DSs	9.9	2.7	10.7	2.7	51	.75	.80	.30
CAr	9.9	3.2	11.0	3.0	52	.83	.81	.35
CAs	10.0	3.1	11.0	3.5	53	.83	.82	.30
VCI	99.8	12.9	103.1	13.6	56	.94	.96	.25
VSI	99.1	13.8	105.6	14.9	56	.84	.86	.45
FRI	96.7	14.5	102.9	14.2	55	.66	.68	.43
WMI	98.9	13.4	102.8	14.4	56	.81	.85	.28
PSI	99.8	12.6	106.8	17.1	56	.88	.92	.47
FSIQ	98.5	13.8	105.1	15.1	55	.91	.92	.46
QRI	99.0	13.9	102.6	15.8	55	.70	.74	.24
AWMI	100.1	13.1	104.3	15.0	56	.87	.90	.30
NVI	98.1	14.1	105.6	14.7	55	.88	.89	.52
GAI	98.1	13.8	103.8	14.3	55	.90	.92	.41
CPI	99.4	13.3	105.8	16.3	56	.88	.91	.43

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.2 Stability Coefficients of Complementary Subtest and Composite Scores, by Age Group

Ages 6–7	First Testing		Second Testing					
Subtest/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r*[a]	Standard Difference[b]
NSL	96.5	20.8	100.8	20.6	37	.92	.85	.21
NSQ	100.2	15.3	102.0	15.9	36	.80	.79	.12
IST	94.3	14.0	101.1	12.3	36	.86	.88	.52
DST	95.4	13.5	103.3	12.9	37	.84	.87	.60
RST	96.0	12.5	102.7	14.2	37	.83	.88	.50
NSI	97.5	18.8	101.7	18.9	37	.88	.81	.22
STI	94.7	12.9	102.6	13.5	37	.85	.89	.60
SRI	95.4	15.1	102.8	15.1	37	.88	.88	.49

Ages 8–9	First Testing		Second Testing					
Subtest/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r*[a]	Standard Difference[b]
NSL	99.7	13.9	104.1	14.7	39	.76	.79	.31
NSQ	103.0	14.5	102.1	14.7	43	.80	.81	−.06
IST	103.0	13.5	112.3	14.6	43	.81	.85	.66
DST	103.7	12.8	112.5	14.1	42	.79	.85	.65
RST	102.4	14.5	108.3	11.5	40	.79	.80	.45
NSI	101.2	16.0	102.7	16.5	42	.78	.75	.09
STI	102.8	14.2	112.0	14.7	43	.81	.83	.64
SRI	102.7	16.2	109.4	16.7	42	.88	.86	.41

Ages 10–11	First Testing		Second Testing					
Subtest/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r*[a]	Standard Difference[b]
NSL	94.9	17.0	97.3	14.6	39	.86	.82	.15
NSQ	96.0	14.7	98.1	14.7	39	.85	.86	.14
IST	96.2	15.3	103.7	17.2	39	.93	.93	.46
DST	95.5	15.4	103.1	15.7	39	.89	.88	.49
RST	96.1	16.2	101.2	14.0	36	.85	.83	.34
NSI	94.7	16.1	97.9	15.1	40	.81	.78	.21
STI	96.2	15.4	103.9	17.1	40	.91	.91	.47
SRI	94.7	16.3	101.3	17.4	40	.89	.87	.39

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Table F.2 Stability Coefficients of Complementary Subtest and Composite Scores, by Age Group *(continued)*

Ages 12–13	First Testing		Second Testing					
Subtest/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r*[a]	Standard Difference[b]
NSL	97.8	14.9	100.8	16.3	41	.86	.86	.19
NSQ	99.0	15.9	100.0	15.7	41	.86	.84	.06
IST	98.1	14.5	105.6	15.1	42	.86	.87	.51
DST	97.7	12.9	107.3	15.3	41	.85	.89	.68
RST	99.8	14.0	103.7	16.1	38	.75	.78	.26
NSI	98.5	15.5	100.1	16.8	42	.83	.82	.10
STI	98.5	13.9	106.5	16.1	41	.82	.85	.53
SRI	98.6	14.4	104.7	16.5	41	.87	.88	.39

Ages 14–16	First Testing		Second Testing					
Subtest/ Composite Score	Mean	*SD*	Mean	*SD*	*n*	r_{12}	Corrected *r*[a]	Standard Difference[b]
NSL	101.2	13.0	103.8	13.7	55	.90	.92	.19
NSQ	100.0	13.4	100.2	13.6	56	.78	.82	.01
IST	96.1	13.2	107.4	16.3	55	.84	.88	.76
DST	97.4	13.4	107.5	15.4	55	.83	.86	.70
RST	99.5	14.5	105.2	13.8	52	.79	.80	.40
NSI	100.8	14.0	102.2	14.6	56	.85	.87	.10
STI	96.3	15.0	106.5	16.2	55	.86	.86	.65
SRI	98.3	13.1	105.8	15.1	55	.85	.89	.53

[a] Correlations were corrected for the variability of the normative sample (Allen & Yen, 2002; Magnusson, 1967).

[b] The Standard Difference is the difference of the two test means divided by the square root of the pooled variance, computed using Cohen's (1996) Formula 10.4.

Appendix G

Intercorrelations of WISC–V Scores, by Age Group

Table G.1 Intercorrelations of Subtest, Process, and Composite Scores for Age 6

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.57					.64				.61	
VC	.57																							.57					.56				.55	
IN	.60	.59																																
CO	.49	.53	.55																															
BD	.41	.38	.41	.31																					.56				.59			.59	.55	
VP	.44	.48	.46	.42	.56																				.56							.61		
MR	.50	.41	.56	.42	.52	.51																				.47			.66			.65	.65	
FW	.35	.29	.36	.23	.35	.49	.47																			.47			.46	.25		.50	.47	
PC	.39	.39	.40	.37	.39	.48	.52	.35																										
AR	.50	.33	.52	.49	.31	.35	.48	.25	.43																					.25				
DS	.55	.46	.63	.55	.46	.56	.55	.36	.56	.56																	.37		.64		.74			.42
PS	.32	.15	.31	.21	.26	.32	.43	.25	.40	.35	.37																.37					.41		.39
LN	.50	.44	.52	.43	.41	.47	.50	.36	.45	.49	.74	.36																			.74			
CD	.23	.19	.28	.20	.27	.15	.23	.13	.17	.23	.20	.18	.18															.56	.29			.27		.41
SS	.35	.27	.48	.31	.35	.36	.42	.32	.37	.41	.40	.34	.36	.56														.56						.62
CA	.04	.00	.08	.12	.22	.10	.08	.03	.07	.00	.08	−.02	−.04	.28	.20																			
BDn	.41	.38	.42	.31	.99	.56	.52	.36	.39	.31	.46	.27	.41	.26	.35	.23																		
BDp	.37	.36	.40	.33	.89	.55	.51	.35	.40	.35	.45	.26	.41	.29	.38	.23	.90																	
DSf	.25	.25	.39	.33	.28	.34	.32	.15	.26	.29	.64	.24	.38	.05	.21	.08	.28	.29																
DSb	.45	.33	.50	.41	.32	.40	.44	.23	.48	.50	.83	.39	.61	.18	.33	.04	.33	.31	.36															
DSs	.58	.48	.59	.54	.42	.49	.50	.38	.50	.52	.82	.29	.71	.21	.41	.07	.43	.42	.32	.55														
CAr	.03	.01	.07	.12	.18	.06	.06	−.01	.05	.00	.05	−.01	−.07	.24	.15	.93	.18	.19	.08	.01	.05													
CAs	.03	−.03	.09	.10	.23	.10	.08	.05	.08	.01	.09	.00	.00	.29	.23	.92	.23	.23	.07	.06	.09	.73												
VCI	.90	.86	.67	.57	.45	.52	.52	.36	.44	.47	.57	.27	.53	.23	.35	.02	.45	.42	.28	.44	.60	.02	.01											
VSI	.48	.49	.49	.41	.89	.88	.58	.48	.49	.37	.57	.33	.50	.24	.41	.18	.88	.82	.35	.41	.52	.13	.19	.55										
FRI	.50	.41	.55	.39	.52	.58	.88	.83	.51	.43	.54	.41	.50	.21	.44	.06	.52	.50	.28	.40	.52	.03	.08	.52	.62									
WMI	.53	.38	.57	.47	.45	.54	.60	.37	.58	.55	.84	.81	.68	.23	.45	.04	.45	.44	.54	.75	.68	.03	.06	.52	.56	.57								
PSI	.32	.26	.43	.29	.35	.29	.37	.26	.30	.37	.34	.29	.31	.88	.89	.28	.35	.38	.15	.28	.35	.22	.29	.33	.37	.37	.38							
FSIQ	.77	.69	.72	.57	.71	.67	.78	.61	.58	.56	.75	.41	.66	.47	.56	.15	.71	.68	.41	.59	.71	.12	.15	.82	.78	.81	.71	.58						
QRI	.54	.39	.56	.46	.42	.53	.60	.77	.50	.81	.59	.38	.54	.23	.47	.02	.42	.44	.28	.47	.58	−.01	.03	.53	.54	.79	.59	.40	.74					
AWMI	.56	.48	.61	.52	.46	.55	.56	.38	.54	.56	.93	.39	.94	.20	.41	.02	.46	.46	.54	.77	.82	−.01	.05	.59	.57	.56	.81	.35	.75	.60				
NVI	.56	.48	.59	.45	.74	.75	.79	.66	.57	.49	.62	.60	.56	.49	.58	.17	.74	.71	.35	.49	.57	.13	.19	.59	.85	.85	.74	.61	.91	.72	.63			
GAI	.78	.71	.69	.54	.73	.67	.80	.65	.56	.51	.65	.39	.60	.29	.47	.10	.72	.68	.34	.49	.64	.07	.10	.85	.79	.85	.64	.43	.97	.73	.67	.88		
CPI	.51	.38	.60	.45	.48	.50	.58	.37	.53	.55	.70	.65	.58	.68	.81	.19	.48	.49	.41	.61	.61	.15	.22	.51	.55	.56	.82	.85	.77	.59	.68	.80	.63	
Mean	9.9	9.9	10.2	10.0	10.0	10.0	10.1	10.2	10.0	10.0	10.0	10.2	9.9	10.0	10.0	10.2	10.0	9.9	10.0	10.0	9.8	10.2	10.1	19.8	20.0	20.3	20.2	20.0	70.1	20.2	19.9	60.5	50.1	40.1
SD	3.3	2.8	2.7	2.8	3.0	3.0	3.2	2.7	3.1	3.0	3.0	2.8	3.3	2.9	2.9	2.9	3.2	2.7	2.8	3.0	3.2	2.8	2.8	5.4	5.3	5.1	4.8	5.2	14.4	4.5	5.9	11.8	11.1	8.3

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.2 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 6

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.32	.24	.32	.20	.23	.15	.22	.11	.22	.27	.30	.21	.31	.26	.36	.15	.22	.21	.11	.28	.33	.15	.15
NSQ	.29	.17	.40	.34	.29	.34	.30	.26	.30	.44	.48	.39	.42	.31	.48	.14	.29	.27	.30	.42	.42	.12	.17
IST	.38	.43	.46	.39	.41	.46	.45	.32	.39	.43	.53	.35	.53	.17	.30	−.06	.40	.40	.30	.40	.48	−.08	−.03
DST	.37	.44	.46	.40	.35	.43	.44	.30	.38	.45	.53	.33	.49	.15	.28	−.02	.34	.35	.35	.42	.43	−.02	−.02
RST	.39	.49	.51	.47	.37	.44	.44	.27	.35	.43	.48	.31	.43	.14	.29	.06	.37	.40	.29	.36	.44	.04	.05
NSI	.35	.24	.41	.31	.30	.28	.30	.21	.30	.41	.45	.34	.42	.32	.48	.16	.29	.28	.23	.41	.43	.15	.18
STI	.40	.48	.50	.44	.39	.47	.46	.32	.40	.46	.54	.35	.51	.16	.30	−.01	.39	.40	.33	.41	.47	−.02	.00
SRI	.46	.45	.56	.46	.42	.46	.46	.31	.42	.53	.61	.42	.57	.28	.46	.08	.41	.41	.33	.50	.55	.07	.10
Mean	9.9	9.9	10.2	10.0	10.0	10.0	10.1	10.2	10.0	10.0	10.0	10.2	9.9	10.0	10.0	10.2	10.0	9.9	10.0	10.0	9.8	10.2	10.1
SD	3.3	2.8	2.7	2.8	3.0	3.0	3.2	2.7	3.1	3.0	3.0	2.8	3.3	2.9	2.9	2.9	3.2	2.7	2.8	3.0	3.2	2.8	2.8

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.32	.21	.20	.31	.35	.36	.25	.33	.29	.32	.39						.51		.29
NSQ	.26	.36	.33	.53	.44	.44	.45	.48	.45	.35	.58	.51					.51		.56
IST	.45	.49	.45	.54	.27	.57	.48	.57	.54	.54	.48	.15	.43					.91	.77
DST	.45	.44	.43	.53	.24	.54	.48	.55	.50	.52	.46	.14	.44	.92				.91	.78
RST	.49	.46	.42	.49	.24	.54	.44	.49	.49	.53	.44	.17	.40	.82	.83			.84	.73
NSI	.33	.33	.30	.48	.45	.46	.40	.46	.43	.38	.56	.87	.87	.33	.33	.33			
STI	.49	.49	.46	.55	.26	.58	.49	.56	.53	.56	.48	.16	.44	.96	.96	.93	.35		
SRI	.51	.50	.46	.63	.42	.63	.54	.63	.58	.57	.62	.63	.78	.78	.79	.77	.81	.82	
Mean	99.6	100.0	100.8	100.5	99.9	100.1	100.5	99.7	100.5	100.1	100.2	99.8	100.0	99.4	100.8	100.1	199.7	300.3	199.5
SD	14.7	14.9	14.8	13.9	14.8	14.7	13.0	16.0	14.3	14.5	14.4	15.2	15.2	15.0	15.2	15.7	26.4	43.5	24.2

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.3 Intercorrelations of Subtest, Process, and Composite Scores for Age 7

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.61					.64				.66	
VC	.61																							.61					.51				.56	
IN	.64	.66																																
CO	.50	.53	.55																															
BD	.42	.34	.45	.31																					.51				.57			.57	.53	
VP	.41	.39	.39	.33	.51																				.51							.59		
MR	.46	.38	.43	.34	.51	.56																				.44			.61			.63	.59	
FW	.46	.36	.37	.31	.35	.43	.44																			.44			.51	.42		.46	.52	
PC	.25	.35	.35	.30	.23	.34	.24	.26																										
AR	.47	.33	.43	.39	.37	.33	.41	.42	.30																					.42				
DS	.46	.39	.49	.43	.41	.41	.44	.37	.34	.56																	.43		.58		.58			.44
PS	.37	.23	.30	.30	.24	.30	.34	.24	.17	.31	.43																.43					.38		.37
LN	.52	.44	.49	.37	.38	.34	.40	.37	.30	.58	.58	.36																			.58			
CD	.11	.01	.17	.15	.28	.13	.20	.12	.16	.34	.24	.20	.31															.56	.22			.26		.45
SS	.27	.13	.22	.22	.36	.20	.25	.26	.17	.36	.31	.23	.26	.56														.56						.51
CA	.21	.18	.18	.10	.24	.29	.19	.20	.09	.19	.21	.06	.12	.26	.39																			
BDn	.42	.35	.45	.31	.99	.51	.51	.34	.23	.38	.42	.23	.40	.28	.36	.24																		
BDp	.38	.32	.45	.31	.91	.47	.48	.34	.24	.43	.40	.19	.42	.25	.33	.15	.91																	
DSf	.33	.30	.39	.36	.32	.24	.30	.21	.22	.37	.71	.30	.38	.23	.30	.16	.32	.31																
DSb	.38	.26	.34	.23	.29	.36	.41	.34	.30	.44	.78	.37	.48	.20	.31	.19	.30	.31	.34															
DSs	.37	.35	.42	.41	.36	.36	.34	.33	.30	.47	.82	.34	.50	.16	.15	.13	.37	.33	.43	.46														
CAr	.20	.16	.15	.05	.19	.24	.12	.13	.05	.15	.18	.03	.09	.22	.33	.92	.20	.12	.16	.15	.12													
CAs	.20	.19	.19	.16	.24	.30	.22	.24	.13	.19	.24	.10	.16	.27	.41	.93	.23	.16	.18	.23	.14	.73												
VCI	.89	.90	.72	.57	.42	.44	.47	.45	.33	.44	.48	.33	.53	.07	.23	.22	.43	.39	.35	.36	.40	.20	.22											
VSI	.48	.42	.49	.37	.86	.87	.62	.45	.33	.41	.47	.31	.42	.23	.32	.30	.86	.79	.32	.38	.42	.25	.31	.50										
FRI	.54	.43	.47	.38	.51	.58	.85	.84	.29	.49	.48	.34	.46	.19	.30	.23	.50	.48	.30	.44	.40	.15	.27	.54	.63									
WMI	.49	.36	.46	.43	.38	.41	.46	.36	.30	.51	.84	.85	.55	.25	.32	.16	.38	.34	.59	.67	.68	.13	.20	.47	.46	.48								
PSI	.22	.09	.22	.21	.36	.19	.26	.22	.18	.40	.31	.24	.32	.88	.89	.37	.36	.33	.30	.29	.17	.31	.38	.17	.32	.28	.33							
FSIQ	.75	.67	.69	.55	.71	.61	.73	.66	.39	.62	.71	.44	.65	.42	.46	.33	.71	.66	.51	.56	.59	.27	.35	.79	.76	.82	.67	.49						
QRI	.55	.41	.48	.42	.43	.45	.50	.84	.34	.85	.55	.33	.57	.27	.37	.23	.43	.45	.35	.46	.47	.17	.25	.53	.51	.79	.51	.37	.76					
AWMI	.53	.45	.54	.42	.43	.40	.45	.40	.34	.63	.88	.43	.90	.30	.30	.17	.45	.45	.59	.69	.73	.13	.20	.55	.48	.51	.77	.34	.75	.62				
NVI	.56	.43	.53	.44	.73	.74	.77	.65	.35	.55	.58	.59	.55	.48	.47	.31	.72	.67	.40	.50	.48	.23	.35	.55	.85	.84	.69	.54	.90	.71	.62			
GAI	.80	.74	.69	.54	.71	.62	.75	.70	.36	.54	.56	.38	.58	.19	.35	.27	.70	.66	.39	.45	.48	.22	.30	.85	.76	.86	.55	.31	.96	.73	.63	.85		
CPI	.42	.26	.41	.38	.46	.36	.43	.35	.29	.55	.70	.66	.53	.71	.76	.33	.46	.41	.54	.58	.51	.28	.37	.38	.47	.46	.80	.83	.71	.53	.68	.75	.52	
Mean	10.1	9.6	9.9	10.0	10.0	9.7	9.9	9.9	9.9	10.0	10.2	9.8	10.0	10.0	10.0	9.9	10.0	10.1	10.2	10.0	10.1	9.8	9.9	19.8	19.7	19.8	20.0	20.0	69.9	19.9	20.3	59.3	49.6	40.0
SD	3.0	3.2	3.0	2.9	3.0	3.1	3.0	2.9	2.9	3.0	3.0	3.0	3.2	3.0	3.2	2.9	3.0	2.7	3.0	2.8	3.0	2.8	2.9	5.6	5.3	5.1	5.1	5.5	14.0	5.0	5.4	11.9	11.2	8.6

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.4 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 7

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.33	.27	.31	.24	.31	.16	.05	.15	.21	.36	.31	.28	.44	.34	.26	.18	.31	.32	.15	.25	.27	.15	.19
NSQ	.27	.09	.17	.20	.25	.21	.19	.21	.33	.40	.36	.31	.46	.25	.28	.13	.25	.29	.18	.35	.31	.11	.16
IST	.42	.33	.51	.46	.29	.29	.38	.33	.28	.40	.50	.39	.46	.19	.23	.13	.30	.33	.38	.39	.41	.08	.16
DST	.45	.37	.51	.43	.33	.29	.38	.34	.26	.41	.46	.42	.43	.17	.29	.14	.34	.36	.35	.35	.38	.08	.18
RST	.35	.27	.41	.44	.22	.30	.35	.31	.22	.41	.46	.31	.38	.18	.18	.15	.23	.25	.40	.31	.40	.10	.16
NSI	.34	.20	.27	.24	.30	.17	.10	.18	.32	.41	.38	.32	.47	.31	.27	.14	.30	.33	.18	.34	.32	.12	.16
STI	.43	.34	.51	.47	.30	.31	.39	.35	.27	.43	.50	.40	.45	.19	.25	.14	.31	.33	.40	.37	.42	.09	.18
SRI	.45	.30	.45	.42	.35	.25	.25	.28	.33	.48	.50	.40	.55	.32	.31	.15	.36	.39	.32	.39	.41	.11	.18
Mean	10.1	9.6	9.9	10.0	10.0	9.7	9.9	9.9	9.9	10.0	10.2	9.8	10.0	10.0	10.0	9.9	10.0	10.1	10.2	10.0	10.1	9.8	9.9
SD	3.0	3.2	3.0	2.9	3.0	3.1	3.0	2.9	2.9	3.0	3.0	3.0	3.2	3.0	3.2	2.9	3.0	2.7	3.0	2.8	3.0	2.8	2.9

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.33	.27	.12	.35	.33	.39	.31	.43	.34	.31	.43						.58		.44
NSQ	.20	.27	.24	.38	.29	.33	.37	.46	.35	.27	.42	.58					.58		.48
IST	.42	.34	.42	.53	.24	.51	.43	.53	.47	.47	.46	.29	.42					.92	.78
DST	.46	.36	.42	.52	.26	.53	.44	.49	.48	.50	.47	.31	.38	.93				.89	.75
RST	.34	.31	.39	.46	.20	.45	.43	.46	.42	.40	.39	.23	.33	.81	.77			.80	.65
NSI	.30	.27	.17	.40	.33	.39	.37	.48	.36	.31	.46	.89	.89	.37	.36	.28			
STI	.43	.36	.43	.53	.25	.53	.46	.52	.49	.48	.47	.29	.40	.97	.95	.91	.36		
SRI	.42	.35	.31	.52	.35	.53	.46	.59	.48	.45	.54	.74	.76	.78	.77	.69	.84	.79	
Mean	99.5	99.1	99.5	99.8	100.1	99.9	99.6	100.8	99.1	99.5	99.9	100.1	99.8	98.3	100.2	99.2	201.3	297.7	201.1
SD	15.2	14.6	14.7	14.6	15.5	14.2	14.5	15.0	14.4	14.6	14.9	15.7	15.9	14.5	14.2	15.1	28.0	41.3	25.1

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.5 Intercorrelations of Subtest, Process, and Composite Scores for Age 8

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.68					.63				.64	
VC	.68																							.68					.68				.71	
IN	.61	.69																																
CO	.55	.57	.52																															
BD	.39	.46	.45	.29																					.55				.53			.56	.53	
VP	.44	.51	.45	.44	.55																				.55							.60		
MR	.45	.53	.49	.43	.47	.52																				.42			.64			.65	.60	
FW	.44	.49	.43	.29	.36	.38	.42																			.42			.55	.49		.47	.54	
PC	.29	.42	.37	.37	.39	.36	.43	.29																										
AR	.53	.55	.50	.35	.43	.43	.48	.49	.36																					.49				
DS	.42	.45	.39	.38	.33	.36	.47	.45	.32	.58																	.45		.57		.61			.47
PS	.41	.42	.37	.42	.29	.37	.45	.31	.27	.47	.45																.45					.46		.39
LN	.39	.50	.36	.44	.31	.40	.46	.39	.30	.55	.61	.44																			.61			
CD	.23	.17	.22	.16	.24	.18	.32	.15	.27	.29	.29	.18	.31															.51	.32			.30		.43
SS	.27	.27	.34	.28	.29	.24	.37	.14	.29	.36	.28	.25	.30	.51														.51						.47
CA	−.03	.07	.15	.07	.03	.04	.04	.08	.18	−.02	.03	.00	.02	.18	.21																			
BDn	.37	.44	.43	.28	.99	.55	.47	.35	.40	.42	.32	.28	.30	.24	.30	.03																		
BDp	.31	.41	.41	.25	.92	.51	.42	.32	.35	.39	.28	.27	.30	.25	.27	.04	.94																	
DSf	.28	.27	.27	.18	.20	.11	.25	.34	.22	.34	.69	.25	.31	.10	.16	.09	.20	.17																
DSb	.33	.31	.26	.26	.24	.30	.36	.33	.24	.44	.75	.37	.51	.27	.20	.03	.24	.21	.27															
DSs	.33	.47	.37	.42	.29	.37	.46	.34	.26	.51	.76	.39	.56	.24	.30	.00	.28	.25	.33	.38														
CAr	−.04	.02	.09	.06	.01	.00	−.03	.00	.15	−.04	−.04	−.01	−.07	.16	.18	.93	.00	.01	.03	−.03	−.04													
CAs	.00	.14	.21	.09	.07	.08	.10	.15	.19	.02	.08	.02	.11	.16	.21	.92	.07	.09	.13	.07	.03	.75												
VCI	.91	.92	.71	.61	.46	.52	.54	.50	.39	.59	.47	.45	.48	.22	.30	.02	.44	.39	.30	.35	.44	−.01	.08											
VSI	.47	.55	.51	.41	.88	.88	.56	.42	.43	.49	.39	.37	.41	.24	.30	.04	.87	.82	.18	.31	.38	.00	.08	.56										
FRI	.53	.60	.54	.43	.49	.54	.85	.84	.42	.58	.54	.45	.51	.28	.30	.07	.49	.44	.35	.41	.47	−.01	.15	.62	.58									
WMI	.49	.51	.45	.47	.36	.43	.54	.44	.35	.61	.85	.86	.62	.27	.31	.02	.35	.32	.55	.65	.67	−.03	.06	.54	.45	.58								
PSI	.29	.26	.33	.26	.31	.24	.39	.17	.32	.37	.33	.25	.35	.87	.87	.23	.31	.29	.15	.27	.31	.20	.21	.30	.31	.33	.33							
FSIQ	.74	.78	.68	.55	.67	.61	.76	.68	.50	.69	.70	.52	.62	.49	.44	.08	.66	.60	.44	.54	.60	.02	.15	.83	.73	.86	.72	.53						
QRI	.56	.60	.54	.37	.46	.47	.52	.87	.37	.85	.59	.45	.55	.25	.28	.03	.44	.41	.39	.45	.49	−.02	.10	.63	.53	.82	.61	.31	.80					
AWMI	.45	.53	.42	.45	.36	.42	.52	.47	.34	.63	.90	.50	.89	.33	.32	.03	.35	.32	.56	.70	.74	−.06	.11	.53	.44	.59	.82	.38	.74	.63				
NVI	.58	.64	.60	.50	.72	.74	.79	.65	.50	.64	.58	.65	.57	.50	.44	.09	.71	.66	.31	.47	.52	.03	.14	.67	.83	.85	.72	.54	.92	.75	.64			
GAI	.77	.83	.70	.56	.71	.63	.76	.71	.48	.65	.56	.50	.54	.29	.35	.05	.69	.63	.36	.42	.50	−.01	.12	.88	.76	.87	.62	.37	.96	.79	.61	.89		
CPI	.48	.47	.48	.44	.41	.41	.57	.38	.41	.61	.72	.68	.60	.69	.71	.15	.40	.38	.43	.57	.60	.10	.16	.52	.47	.56	.82	.81	.77	.56	.74	.78	.61	
Mean	9.9	10.2	10.1	9.9	10.1	10.2	10.0	10.1	10.2	10.0	10.0	10.1	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.8	10.1	10.1	10.0	20.2	20.3	20.2	20.1	20.2	70.6	20.2	20.1	60.6	50.5	40.3
SD	2.9	3.1	2.6	2.8	3.1	3.0	3.1	3.0	3.0	2.9	3.0	3.1	2.8	2.9	2.9	3.0	3.4	3.1	3.1	3.0	2.9	2.8	2.9	5.5	5.3	5.2	5.2	5.0	14.6	5.1	5.2	12.4	11.5	8.4

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.6 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 8

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.19	.25	.24	.17	.25	.17	.27	.14	.18	.30	.34	.35	.32	.19	.30	.22	.25	.22	.18	.28	.33	.20	.22
NSQ	.14	.17	.22	.23	.20	.26	.27	.25	.27	.37	.36	.39	.33	.32	.33	.10	.20	.18	.15	.31	.34	.06	.13
IST	.40	.48	.42	.46	.27	.40	.41	.39	.31	.34	.35	.40	.49	.15	.21	.03	.26	.24	.17	.28	.36	.01	.05
DST	.32	.40	.33	.38	.25	.35	.39	.36	.30	.27	.31	.31	.41	.09	.17	.01	.25	.24	.16	.24	.29	−.02	.04
RST	.36	.41	.38	.43	.22	.35	.40	.39	.31	.32	.36	.42	.39	.12	.22	.02	.22	.19	.20	.22	.40	−.01	.06
NSI	.20	.25	.26	.23	.26	.26	.32	.23	.27	.39	.40	.43	.36	.30	.38	.19	.26	.24	.18	.33	.39	.16	.21
STI	.38	.45	.40	.44	.26	.39	.42	.40	.32	.33	.36	.40	.45	.13	.21	.02	.26	.23	.18	.26	.37	−.01	.05
SRI	.37	.44	.41	.41	.34	.40	.46	.39	.36	.44	.46	.50	.49	.26	.35	.14	.34	.31	.21	.37	.46	.10	.18
Mean	9.9	10.2	10.1	9.9	10.1	10.2	10.0	10.1	10.2	10.0	10.0	10.1	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.8	10.1	10.1	10.0
SD	2.9	3.1	2.6	2.8	3.1	3.0	3.1	3.0	3.0	2.9	3.0	3.1	2.8	2.9	2.9	3.0	3.4	3.1	3.1	3.0	2.9	2.8	2.9

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.24	.23	.24	.40	.28	.33	.25	.37	.33	.28	.42						.48		.32
NSQ	.17	.26	.31	.45	.37	.35	.36	.39	.41	.27	.50	.48					.48		.50
IST	.48	.38	.48	.44	.20	.51	.42	.47	.50	.51	.40	.21	.38					.92	.78
DST	.40	.34	.45	.36	.14	.44	.37	.40	.43	.46	.31	.20	.34	.92				.90	.75
RST	.42	.32	.47	.46	.19	.47	.41	.41	.47	.47	.40	.18	.44	.83	.81			.84	.75
NSI	.24	.30	.33	.49	.38	.40	.35	.43	.44	.33	.54	.86	.86	.34	.31	.36			
STI	.46	.37	.49	.44	.19	.50	.42	.45	.49	.51	.39	.21	.40	.96	.96	.93	.35		
SRI	.45	.41	.50	.57	.34	.56	.48	.53	.58	.53	.56	.65	.75	.80	.77	.77	.81	.82	
Mean	100.6	100.8	100.5	100.3	100.5	100.6	100.4	100.1	100.7	100.7	100.5	100.4	100.0	102.1	101.8	101.4	200.7	305.3	202.5
SD	14.9	15.0	15.2	15.0	14.2	14.9	14.7	14.4	15.0	15.0	14.5	15.3	15.8	15.3	15.6	15.0	26.8	43.6	25.3

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.7 Intercorrelations of Subtest, Process, and Composite Scores for Age 9

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.68					.59				.57	
VC	.68																							.68					.67				.65	
IN	.70	.77																																	
CO	.62	.64	.62																																
BD	.37	.48	.42	.37																					.56				.57			.61	.58	
VP	.46	.54	.46	.42	.56																				.56							.53		
MR	.33	.37	.36	.35	.41	.39																				.46			.53			.54	.51	
FW	.34	.40	.43	.33	.49	.47	.46																			.46			.55	.40		.56	.55	
PC	.32	.29	.28	.25	.22	.29	.28	.25																											
AR	.56	.58	.57	.53	.43	.43	.41	.40	.32																					.40					
DS	.40	.45	.40	.48	.37	.41	.36	.33	.31	.54																	.46		.52		.61			.45
PS	.30	.42	.35	.41	.34	.23	.30	.26	.21	.43	.46																.46					.41		.45
LN	.46	.52	.47	.50	.32	.34	.42	.34	.37	.57	.61	.47																			.61			
CD	.28	.30	.29	.30	.25	.17	.28	.24	.26	.36	.24	.30	.29															.57	.37			.35		.49
SS	.33	.35	.34	.30	.29	.24	.32	.23	.23	.32	.34	.29	.27	.57														.57						.54
CA	.10	.12	.06	.16	.14	–.06	.04	.05	.01	.18	.13	.10	.10	.29	.35																			
BDn	.39	.48	.41	.36	.99	.56	.39	.47	.21	.40	.37	.33	.32	.23	.29	.14																			
BDp	.33	.42	.34	.35	.92	.58	.36	.47	.17	.36	.35	.31	.30	.22	.26	.08	.91																		
DSf	.36	.35	.35	.35	.25	.21	.22	.15	.15	.34	.73	.34	.40	.07	.20	.04	.25	.23																	
DSb	.26	.35	.27	.36	.34	.37	.23	.27	.26	.43	.78	.39	.41	.22	.27	.10	.34	.32	.38																
DSs	.34	.37	.37	.43	.32	.40	.38	.36	.30	.47	.80	.35	.58	.25	.27	.16	.32	.31	.43	.43															
CAr	.11	.14	.06	.15	.14	–.04	.06	.06	.03	.18	.14	.07	.06	.26	.32	.92	.15	.08	.08	.13	.12														
CAs	.10	.11	.06	.16	.11	–.07	.02	.03	–.01	.18	.12	.10	.12	.25	.36	.92	.11	.07	.03	.07	.19	.73													
VCI	.91	.92	.80	.69	.46	.55	.38	.41	.33	.62	.46	.39	.53	.32	.37	.12	.47	.41	.39	.34	.39	.13	.11												
VSI	.47	.58	.50	.45	.88	.88	.46	.54	.29	.49	.44	.32	.38	.24	.30	.04	.88	.85	.26	.40	.40	.05	.02	.57											
FRI	.39	.45	.47	.39	.53	.51	.84	.87	.31	.48	.40	.33	.44	.30	.32	.05	.51	.49	.22	.30	.43	.07	.03	.46	.59										
WMI	.40	.51	.44	.52	.41	.37	.39	.35	.31	.56	.85	.86	.63	.32	.36	.13	.41	.38	.62	.68	.68	.13	.13	.50	.45	.43									
PSI	.34	.37	.36	.34	.31	.23	.33	.26	.28	.39	.33	.33	.31	.89	.89	.36	.30	.27	.15	.27	.29	.33	.34	.38	.31	.35	.39								
FSIQ	.72	.78	.71	.65	.71	.63	.66	.69	.40	.69	.66	.50	.62	.55	.51	.18	.70	.64	.45	.51	.59	.19	.16	.81	.76	.79	.68	.60							
QRI	.54	.59	.60	.51	.55	.54	.52	.84	.34	.83	.52	.41	.54	.36	.33	.14	.53	.50	.30	.42	.50	.14	.12	.61	.62	.81	.54	.39	.82						
AWMI	.48	.54	.49	.55	.39	.42	.43	.38	.38	.62	.90	.52	.90	.30	.34	.13	.38	.36	.63	.67	.77	.11	.13	.56	.46	.47	.83	.36	.71	.59					
NVI	.52	.62	.58	.54	.75	.70	.70	.72	.37	.61	.54	.60	.54	.56	.48	.14	.74	.71	.31	.45	.51	.14	.11	.62	.82	.83	.67	.59	.93	.80	.60				
GAI	.74	.80	.73	.62	.74	.66	.68	.73	.36	.65	.52	.44	.56	.36	.41	.12	.73	.67	.36	.39	.48	.14	.10	.84	.79	.83	.56	.43	.96	.82	.60	.89			
CPI	.45	.52	.48	.51	.43	.36	.43	.36	.35	.57	.70	.71	.56	.73	.76	.30	.42	.39	.46	.57	.58	.28	.29	.53	.45	.46	.82	.84	.76	.56	.70	.75	.59		
Mean	10.0	9.8	9.6	9.9	9.9	10.0	10.2	10.0	9.7	10.0	10.0	10.0	10.0	9.9	9.7	10.1	9.9	9.8	10.1	10.1	9.9	10.3	9.9	19.9	20.0	20.2	20.0	19.6	69.9	20.0	20.0	60.1	50.0	39.6
SD	3.0	3.2	2.8	3.2	3.0	3.0	2.8	3.1	2.8	3.0	3.0	3.0	3.0	3.1	3.1	3.0	2.9	3.0	2.9	2.9	2.9	3.1	2.9	5.6	5.3	5.1	5.2	5.5	14.4	5.1	5.4	12.2	11.2	8.9

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.8 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 9

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.22	.24	.25	.28	.10	.18	.08	.16	.17	.25	.29	.24	.24	.22	.24	.15	.10	.07	.09	.29	.27	.14	.16
NSQ	.35	.37	.39	.35	.30	.26	.19	.25	.21	.43	.30	.29	.34	.35	.32	.16	.29	.24	.13	.29	.27	.15	.17
IST	.47	.36	.45	.47	.31	.37	.36	.33	.31	.37	.41	.32	.51	.27	.22	.03	.31	.27	.31	.24	.41	.05	.03
DST	.42	.35	.44	.49	.31	.38	.31	.34	.25	.33	.39	.33	.45	.24	.20	.03	.31	.28	.34	.22	.38	.03	.05
RST	.40	.30	.42	.49	.20	.31	.33	.17	.26	.28	.39	.27	.44	.20	.21	.04	.19	.17	.34	.20	.39	.01	.06
NSI	.32	.34	.36	.35	.22	.24	.15	.23	.21	.38	.33	.30	.32	.32	.31	.17	.22	.17	.12	.33	.30	.16	.18
STI	.46	.36	.47	.52	.29	.38	.36	.30	.29	.35	.42	.33	.50	.25	.22	.04	.29	.26	.35	.23	.42	.03	.05
SRI	.47	.42	.49	.52	.31	.37	.31	.32	.30	.43	.45	.38	.49	.36	.33	.12	.30	.26	.29	.34	.43	.12	.13
Mean	10.0	9.8	9.6	9.9	9.9	10.0	10.2	10.0	9.7	10.0	10.0	10.0	10.0	9.9	9.7	10.1	9.9	9.8	10.1	10.1	9.9	10.3	9.9
SD	3.0	3.2	2.8	3.2	3.0	3.0	2.8	3.1	2.8	3.0	3.0	3.0	3.0	3.1	3.1	3.0	2.9	3.0	2.9	2.9	2.9	3.1	2.9

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.25	.16	.14	.31	.26	.28	.25	.30	.24	.22	.35						.61		.46
NSQ	.40	.32	.26	.35	.37	.45	.41	.36	.41	.40	.44	.61					.61		.53
IST	.45	.39	.40	.42	.27	.53	.42	.51	.49	.49	.42	.31	.41					.88	.78
DST	.42	.39	.38	.41	.25	.50	.40	.47	.47	.47	.40	.31	.36	.91				.90	.77
RST	.38	.29	.29	.38	.23	.42	.27	.46	.36	.38	.36	.30	.36	.74	.77			.78	.69
NSI	.36	.27	.22	.37	.35	.40	.36	.36	.36	.34	.44	.90	.89	.41	.37	.36			
STI	.45	.38	.38	.44	.27	.51	.39	.52	.47	.48	.42	.33	.40	.95	.96	.90	.41		
SRI	.49	.39	.37	.48	.39	.55	.45	.53	.51	.49	.53	.72	.76	.80	.80	.76	.83	.84	
Mean	99.7	99.9	100.5	100.0	99.0	99.8	100.0	100.0	100.1	100.0	99.3	99.7	99.9	100.8	99.1	99.3	199.6	299.2	199.3
SD	15.4	14.9	14.8	14.8	15.4	14.6	15.0	14.9	14.8	14.6	15.4	15.7	15.3	15.6	15.8	15.7	27.8	44.0	26.2

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.9 Intercorrelations of Subtest, Process, and Composite Scores for Age 10

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.77					.68				.69	
VC	.77																							.77					.68				.70	
IN	.66	.77																																
CO	.58	.62	.54																															
BD	.49	.52	.50	.42																					.62				.67			.70	.63	
VP	.50	.51	.52	.40	.62																				.62							.61		
MR	.38	.35	.33	.28	.44	.37																				.45			.51			.52	.50	
FW	.49	.53	.49	.45	.54	.53	.45																			.45			.62	.51		.60	.64	
PC	.47	.50	.43	.40	.47	.40	.30	.43																										
AR	.48	.54	.48	.41	.45	.46	.45	.51	.34																					.51				
DS	.41	.42	.43	.28	.45	.37	.39	.37	.31	.50																	.57		.53		.58			.45
PS	.34	.47	.40	.32	.40	.38	.38	.33	.33	.44	.57																.57					.48		.47
LN	.48	.53	.50	.40	.43	.42	.36	.50	.29	.53	.58	.53																			.58			
CD	.31	.26	.22	.22	.40	.22	.22	.26	.22	.44	.26	.25	.29															.59	.38			.36		.49
SS	.26	.21	.25	.23	.26	.21	.19	.17	.22	.30	.20	.23	.23	.59														.59						.45
CA	.19	.13	.14	.07	.26	.16	.19	.24	.17	.16	.05	.05	.18	.31	.31																			
BDn	.48	.52	.51	.43	.98	.59	.42	.52	.46	.44	.45	.40	.43	.39	.24	.22																		
BDp	.48	.52	.50	.44	.91	.57	.41	.48	.45	.48	.42	.41	.43	.37	.27	.22	.91																	
DSf	.33	.34	.36	.27	.34	.29	.27	.21	.19	.36	.79	.48	.41	.15	.19	.04	.35	.28																
DSb	.29	.28	.26	.18	.31	.26	.25	.29	.22	.42	.79	.42	.44	.22	.10	−.01	.32	.32	.48															
DSs	.39	.42	.43	.27	.44	.36	.43	.42	.37	.46	.81	.52	.56	.25	.23	.08	.43	.42	.49	.45														
CAr	.14	.11	.11	.04	.21	.15	.16	.21	.15	.16	.06	.06	.16	.25	.24	.91	.16	.17	.04	.02	.07													
CAs	.19	.13	.15	.07	.25	.15	.22	.24	.16	.17	.04	.06	.18	.32	.32	.92	.23	.23	.05	.00	.07	.70												
VCI	.94	.94	.76	.64	.53	.54	.39	.54	.51	.54	.44	.43	.53	.30	.25	.17	.53	.53	.36	.31	.43	.14	.17											
VSI	.55	.57	.57	.46	.90	.90	.45	.59	.48	.50	.46	.43	.47	.35	.26	.23	.87	.82	.35	.32	.45	.20	.23	.60										
FRI	.52	.52	.49	.44	.58	.53	.83	.87	.43	.57	.44	.42	.51	.28	.21	.25	.56	.52	.28	.32	.50	.22	.27	.55	.62									
WMI	.43	.50	.47	.34	.48	.42	.43	.40	.36	.53	.90	.88	.63	.28	.24	.05	.48	.47	.73	.69	.76	.07	.06	.49	.50	.48								
PSI	.32	.26	.27	.26	.37	.24	.23	.24	.24	.41	.26	.27	.29	.89	.90	.35	.35	.36	.19	.18	.27	.27	.36	.31	.34	.27	.29							
FSIQ	.78	.78	.69	.58	.78	.64	.65	.74	.55	.68	.67	.56	.64	.54	.38	.27	.77	.73	.50	.50	.64	.23	.28	.83	.79	.82	.69	.51						
QRI	.56	.61	.56	.50	.57	.57	.51	.87	.44	.87	.50	.44	.59	.40	.26	.23	.55	.55	.33	.41	.50	.22	.23	.62	.63	.83	.53	.37	.82					
AWMI	.50	.53	.52	.38	.49	.44	.42	.48	.33	.58	.90	.62	.88	.30	.24	.12	.49	.48	.69	.71	.78	.12	.12	.54	.52	.53	.87	.30	.74	.61				
NVI	.60	.63	.59	.51	.82	.75	.67	.75	.51	.66	.57	.64	.60	.55	.39	.29	.79	.75	.41	.42	.58	.25	.29	.66	.87	.84	.68	.52	.93	.81	.66			
GAI	.81	.82	.71	.61	.78	.66	.67	.78	.56	.63	.52	.50	.60	.37	.28	.26	.76	.73	.39	.37	.54	.22	.27	.87	.80	.86	.58	.37	.97	.81	.63	.90		
CPI	.46	.47	.46	.37	.53	.41	.41	.39	.37	.59	.72	.71	.57	.73	.71	.25	.51	.51	.57	.54	.64	.21	.26	.50	.52	.47	.80	.80	.75	.56	.73	.75	.59	
Mean	10.0	10.1	9.9	9.9	9.9	10.0	9.8	10.2	10.1	10.0	9.9	9.9	10.0	10.1	10.1	9.8	10.0	9.8	9.9	10.0	10.1	9.8	9.9	20.1	19.9	19.9	19.8	20.2	69.9	20.2	19.9	59.8	49.9	40.0
SD	3.0	2.9	2.7	3.0	3.1	3.1	2.8	3.2	3.1	3.1	3.1	2.8	2.7	2.8	3.0	2.8	2.8	3.1	2.9	2.8	3.1	2.7	2.8	5.6	5.5	5.1	5.2	5.2	14.8	5.5	5.1	12.5	11.6	8.4

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.10 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 10

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.16	.17	.23	.17	.18	.23	.20	.23	.10	.38	.35	.34	.34	.25	.21	.05	.16	.18	.28	.25	.33	.09	.04
NSQ	.16	.13	.17	.17	.28	.27	.34	.26	.05	.42	.32	.27	.37	.30	.22	.17	.28	.30	.23	.23	.34	.16	.18
IST	.32	.40	.40	.45	.40	.37	.33	.47	.34	.36	.28	.33	.40	.21	.23	.02	.40	.37	.27	.18	.29	−.02	.07
DST	.31	.34	.34	.38	.35	.31	.33	.33	.29	.29	.23	.28	.36	.20	.26	.12	.35	.32	.24	.19	.21	.06	.18
RST	.26	.31	.27	.35	.34	.31	.30	.32	.30	.27	.21	.31	.30	.13	.22	.05	.34	.34	.18	.13	.22	−.01	.11
NSI	.18	.18	.23	.19	.25	.28	.29	.28	.09	.44	.37	.34	.40	.30	.24	.12	.24	.26	.28	.26	.37	.14	.12
STI	.32	.38	.36	.42	.39	.36	.34	.40	.33	.33	.26	.33	.38	.19	.25	.07	.39	.37	.25	.18	.26	.01	.13
SRI	.32	.35	.36	.36	.39	.38	.39	.40	.26	.46	.38	.40	.47	.29	.29	.10	.38	.38	.31	.26	.38	.08	.14
Mean	10.0	10.1	9.9	9.9	9.9	10.0	9.8	10.2	10.1	10.0	9.9	9.9	10.0	10.1	10.1	9.8	10.0	9.8	9.9	10.0	10.1	9.8	9.9
SD	3.0	2.9	2.7	3.0	3.1	3.1	2.8	3.2	3.1	3.1	3.1	2.8	2.7	2.8	3.0	2.8	2.8	3.1	2.9	2.8	3.1	2.7	2.8

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.18	.23	.25	.39	.26	.31	.35	.39	.34	.25	.40						.64		.48
NSQ	.15	.30	.35	.33	.28	.36	.38	.39	.40	.30	.38	.64					.64		.51
IST	.39	.43	.47	.34	.24	.50	.48	.38	.51	.51	.36	.38	.37					.88	.80
DST	.35	.37	.38	.29	.26	.42	.35	.34	.43	.43	.34	.34	.35	.89				.88	.77
RST	.30	.36	.36	.29	.19	.38	.33	.29	.40	.40	.30	.27	.33	.75	.76			.78	.70
NSI	.19	.29	.33	.40	.30	.37	.40	.43	.41	.31	.43	.91	.90	.41	.38	.34			
STI	.37	.42	.44	.33	.25	.47	.41	.36	.48	.48	.36	.36	.38	.95	.95	.89	.40		
SRI	.35	.42	.46	.44	.32	.51	.49	.47	.53	.48	.47	.75	.74	.82	.80	.74	.82	.84	
Mean	100.3	99.7	99.8	99.5	100.6	99.8	100.5	99.7	99.7	99.8	100.1	99.3	100.8	102.4	100.6	99.8	200.0	302.7	200.6
SD	15.2	15.4	14.9	14.9	14.8	15.0	16.0	14.1	15.0	15.1	14.5	13.6	13.0	14.8	16.0	13.6	24.0	41.4	23.7

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.11 Intercorrelations of Subtest, Process, and Composite Scores for Age 11

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.68					.61				.63	
VC	.68																							.68					.65				.68	
IN	.59	.72																																	
CO	.56	.52	.52																																
BD	.48	.49	.41	.32																					.57				.65			.65	.61	
VP	.46	.48	.42	.37	.57																				.57							.62		
MR	.32	.39	.36	.27	.38	.39																				.42			.48			.46	.48	
FW	.45	.47	.42	.25	.52	.50	.42																			.42			.58	.50		.53	.60	
PC	.42	.43	.41	.34	.43	.40	.29	.29																											
AR	.50	.48	.57	.28	.52	.44	.34	.50	.26																					.50					
DS	.40	.38	.39	.33	.44	.40	.30	.43	.29	.57																	.50		.55		.64			.45
PS	.34	.32	.32	.34	.34	.36	.23	.28	.27	.33	.50																.50					.44		.48
LN	.45	.42	.36	.36	.38	.38	.30	.33	.30	.51	.64	.54																			.64			
CD	.16	.22	.16	.22	.34	.24	.20	.10	.17	.29	.32	.34	.32															.60	.31			.34		.57
SS	.22	.21	.19	.19	.36	.28	.26	.15	.23	.25	.20	.26	.25	.60														.60						.45
CA	.14	.10	.13	.15	.22	.12	.12	.08	.07	.18	.07	.06	.15	.32	.43																			
BDn	.47	.48	.41	.31	.98	.57	.39	.51	.41	.51	.43	.32	.38	.31	.34	.23																		
BDp	.44	.43	.38	.27	.92	.58	.38	.52	.42	.49	.45	.33	.37	.31	.33	.21	.92																	
DSf	.26	.25	.24	.20	.29	.19	.19	.24	.10	.41	.73	.41	.43	.20	.05	–.03	.30	.30																
DSb	.29	.29	.28	.29	.35	.33	.27	.38	.22	.46	.80	.35	.47	.25	.14	.07	.34	.36	.37															
DSs	.37	.36	.42	.28	.40	.40	.23	.39	.32	.47	.80	.44	.58	.27	.23	.08	.38	.39	.45	.47														
CAr	.11	.08	.10	.10	.19	.08	.13	.06	.01	.19	.04	.00	.13	.29	.36	.93	.20	.17	–.02	.03	.06													
CAs	.13	.12	.13	.17	.23	.11	.12	.06	.10	.15	.09	.11	.14	.31	.44	.92	.22	.21	.01	.08	.09	.73												
VCI	.91	.92	.71	.59	.53	.51	.39	.50	.46	.53	.43	.36	.48	.21	.24	.13	.52	.48	.28	.31	.40	.10	.14											
VSI	.53	.55	.47	.39	.89	.89	.44	.58	.46	.54	.48	.40	.43	.32	.36	.19	.88	.84	.27	.39	.45	.15	.19	.59										
FRI	.46	.52	.47	.31	.54	.53	.84	.85	.35	.50	.44	.30	.38	.18	.24	.12	.53	.54	.26	.39	.36	.11	.11	.53	.60									
WMI	.42	.40	.41	.39	.45	.44	.31	.41	.32	.52	.86	.87	.68	.38	.27	.07	.43	.45	.65	.66	.71	.02	.12	.45	.50	.43								
PSI	.21	.24	.20	.23	.39	.29	.26	.14	.22	.30	.29	.33	.32	.89	.90	.42	.36	.36	.14	.22	.28	.37	.42	.25	.38	.23	.36							
FSIQ	.73	.77	.64	.52	.77	.64	.63	.71	.49	.67	.69	.49	.60	.48	.42	.22	.75	.72	.45	.55	.59	.18	.22	.82	.79	.80	.68	.50						
QRI	.54	.55	.57	.30	.60	.54	.44	.87	.32	.86	.57	.35	.48	.22	.23	.15	.59	.59	.37	.48	.49	.14	.12	.60	.65	.78	.53	.25	.80					
AWMI	.47	.44	.42	.38	.45	.44	.34	.42	.33	.59	.91	.57	.90	.35	.25	.12	.45	.45	.64	.71	.76	.09	.12	.50	.50	.45	.85	.34	.71	.58				
NVI	.54	.59	.52	.44	.78	.76	.64	.70	.46	.60	.59	.63	.56	.54	.47	.22	.76	.75	.38	.48	.53	.18	.23	.62	.87	.80	.71	.56	.92	.75	.64			
GAI	.78	.81	.67	.51	.76	.64	.66	.76	.49	.62	.52	.40	.50	.27	.32	.18	.75	.72	.33	.42	.46	.15	.17	.87	.79	.84	.53	.33	.96	.80	.56	.86		
CPI	.39	.39	.37	.37	.51	.44	.34	.33	.33	.50	.70	.73	.61	.77	.70	.30	.48	.49	.48	.53	.60	.23	.33	.42	.54	.40	.83	.82	.71	.48	.72	.77	.52	
Mean	10.0	10.2	10.2	10.2	10.1	10.2	10.1	10.3	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.4	10.3	10.0	10.0	10.2	10.1	10.2	20.2	20.3	20.4	20.1	19.9	70.7	20.3	20.1	60.7	50.7	40.0
SD	3.0	3.1	2.9	3.1	3.0	3.0	2.9	3.0	3.1	2.9	3.0	3.1	2.8	2.8	2.9	3.1	3.1	3.1	3.1	3.2	2.9	3.2	3.1	5.6	5.3	4.9	5.2	5.2	14.2	5.1	5.3	12.0	11.3	8.6

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.12 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 11

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.21	.16	.24	.29	.17	.16	.20	.07	.20	.34	.34	.29	.36	.39	.25	.26	.16	.13	.18	.30	.30	.22	.26
NSQ	.20	.19	.24	.23	.25	.17	.17	.18	.23	.35	.37	.22	.28	.37	.30	.34	.24	.23	.17	.32	.37	.30	.32
IST	.33	.34	.37	.23	.27	.34	.30	.30	.31	.35	.46	.43	.50	.21	.12	.06	.25	.27	.24	.34	.50	.04	.08
DST	.31	.32	.41	.24	.27	.28	.27	.31	.24	.39	.48	.44	.47	.24	.14	.08	.26	.27	.27	.35	.49	.05	.10
RST	.29	.34	.44	.37	.32	.36	.30	.30	.30	.39	.42	.37	.46	.24	.20	.16	.32	.30	.22	.30	.43	.13	.19
NSI	.23	.19	.26	.29	.23	.18	.20	.14	.24	.38	.39	.28	.35	.42	.30	.33	.22	.19	.19	.34	.37	.28	.31
STI	.33	.36	.43	.30	.30	.35	.31	.33	.31	.40	.49	.45	.51	.25	.16	.11	.30	.30	.26	.36	.51	.08	.13
SRI	.34	.33	.42	.35	.31	.31	.30	.28	.32	.48	.54	.45	.54	.41	.28	.28	.30	.30	.28	.43	.53	.23	.28
Mean	10.0	10.2	10.2	10.2	10.1	10.2	10.1	10.3	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.4	10.3	10.0	10.0	10.2	10.1	10.2
SD	3.0	3.1	2.9	3.1	3.0	3.0	2.9	3.0	3.1	2.9	3.0	3.1	2.8	2.8	2.9	3.1	3.1	3.1	3.1	3.2	2.9	3.2	3.1

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.21	.18	.16	.36	.36	.31	.23	.39	.30	.20	.43						.67		.43
NSQ	.21	.24	.21	.34	.38	.36	.30	.36	.33	.25	.43	.67					.67		.47
IST	.37	.34	.36	.52	.18	.46	.38	.53	.45	.41	.42	.21	.23					.88	.69
DST	.35	.31	.35	.53	.21	.46	.41	.52	.44	.39	.44	.24	.26	.90				.89	.72
RST	.35	.38	.35	.45	.25	.46	.39	.48	.46	.41	.42	.30	.33	.74	.76			.77	.71
NSI	.23	.23	.20	.38	.41	.36	.29	.41	.34	.25	.47	.92	.91	.24	.27	.35			
STI	.38	.37	.38	.54	.23	.50	.42	.55	.48	.43	.46	.27	.29	.95	.95	.89	.31		
SRI	.36	.35	.34	.56	.38	.52	.44	.59	.50	.41	.57	.73	.74	.73	.76	.75	.80	.80	
Mean	100.5	100.9	101.1	100.3	99.9	100.8	100.9	100.2	100.8	100.9	100.1	99.4	99.0	102.3	100.9	101.0	198.4	304.2	200.4
SD	15.0	14.9	14.6	15.0	14.6	14.5	14.7	14.6	14.7	14.7	14.9	14.7	14.0	15.1	14.5	13.7	26.3	40.3	23.4

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.13 Intercorrelations of Subtest, Process, and Composite Scores for Age 12

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.74					.76				.76	
VC	.74																							.74					.74				.73	
IN	.73	.78																																
CO	.70	.70	.67																															
BD	.61	.54	.56	.49																					.69				.66			.68	.67	
VP	.57	.59	.58	.46	.69																				.69							.72		
MR	.57	.54	.55	.51	.54	.56																				.58			.67			.67	.67	
FW	.56	.58	.58	.51	.56	.65	.58																			.58			.67	.59		.70	.69	
PC	.47	.48	.48	.40	.34	.33	.41	.34																										
AR	.57	.62	.64	.51	.53	.57	.47	.59	.34																					.59				
DS	.61	.61	.57	.59	.47	.51	.56	.56	.37	.51																	.59		.70		.71			.62
PS	.47	.48	.42	.42	.39	.44	.49	.54	.35	.49	.59																.59					.56		.50
LN	.61	.62	.61	.60	.46	.52	.52	.49	.41	.55	.71	.57																			.71			
CD	.35	.35	.30	.42	.34	.32	.31	.25	.25	.27	.40	.25	.40															.62	.41			.37		.52
SS	.39	.40	.41	.35	.40	.43	.37	.40	.28	.36	.45	.36	.44	.62														.62						.60
CA	.17	.17	.14	.22	.23	.23	.21	.09	.07	.19	.20	.08	.22	.39	.33																			
BDn	.61	.55	.57	.50	.97	.68	.54	.54	.32	.52	.48	.41	.48	.34	.39	.25																		
BDp	.59	.54	.55	.47	.93	.69	.51	.54	.30	.50	.46	.37	.42	.33	.39	.24	.93																	
DSf	.51	.47	.43	.46	.41	.40	.44	.36	.23	.40	.80	.43	.56	.29	.28	.19	.42	.40																
DSb	.46	.48	.43	.48	.36	.38	.51	.50	.33	.39	.84	.50	.52	.36	.34	.12	.37	.36	.53															
DSs	.54	.56	.54	.53	.42	.48	.45	.54	.37	.48	.82	.54	.68	.36	.47	.18	.43	.41	.50	.56														
CAr	.16	.15	.16	.21	.17	.20	.16	.04	.08	.16	.17	.03	.18	.33	.27	.90	.19	.18	.17	.10	.15													
CAs	.17	.17	.11	.20	.26	.23	.22	.12	.08	.17	.19	.12	.22	.38	.34	.89	.28	.28	.19	.13	.16	.64												
VCI	.93	.94	.81	.75	.61	.62	.60	.61	.51	.64	.65	.51	.66	.37	.42	.18	.62	.60	.53	.50	.59	.17	.18											
VSI	.64	.61	.62	.52	.92	.92	.60	.65	.37	.60	.54	.45	.53	.36	.45	.25	.90	.88	.44	.40	.49	.20	.27	.67										
FRI	.64	.64	.64	.58	.62	.68	.89	.89	.43	.60	.63	.58	.57	.32	.43	.17	.61	.59	.45	.56	.56	.12	.19	.68	.71									
WMI	.61	.61	.56	.57	.48	.53	.59	.62	.41	.57	.89	.89	.72	.37	.45	.16	.50	.47	.69	.75	.76	.11	.17	.65	.55	.68								
PSI	.40	.42	.39	.43	.41	.41	.38	.36	.30	.35	.47	.34	.47	.91	.89	.40	.40	.40	.32	.39	.46	.34	.40	.44	.45	.41	.45							
FSIQ	.83	.82	.77	.74	.76	.73	.77	.77	.50	.67	.79	.61	.72	.56	.57	.27	.76	.73	.62	.66	.70	.22	.28	.89	.81	.87	.79	.63						
QRI	.64	.67	.69	.57	.61	.68	.59	.90	.38	.89	.60	.58	.58	.29	.43	.16	.60	.59	.43	.50	.58	.12	.16	.70	.70	.84	.66	.40	.81					
AWMI	.66	.67	.64	.65	.51	.56	.58	.57	.42	.57	.93	.63	.92	.44	.48	.23	.52	.48	.74	.74	.81	.19	.22	.71	.58	.65	.87	.51	.82	.64				
NVI	.70	.69	.67	.63	.79	.82	.79	.81	.46	.66	.70	.71	.67	.55	.58	.27	.78	.75	.52	.59	.63	.21	.30	.75	.87	.90	.79	.62	.95	.82	.74			
GAI	.85	.83	.78	.71	.79	.75	.79	.81	.50	.68	.69	.58	.66	.39	.48	.21	.79	.76	.54	.56	.62	.17	.23	.90	.84	.90	.71	.48	.97	.84	.73	.93		
CPI	.60	.61	.56	.59	.53	.56	.57	.58	.42	.54	.81	.74	.70	.73	.77	.32	.53	.51	.60	.68	.73	.26	.33	.65	.59	.65	.87	.84	.83	.63	.82	.83	.71	
Mean	10.0	10.2	10.2	10.1	9.9	10.0	10.2	10.0	9.9	10.0	10.0	10.2	10.2	10.0	9.9	10.0	10.0	10.1	9.8	10.1	10.0	10.0	9.9	20.2	20.0	20.1	20.3	19.9	70.3	20.0	20.2	60.3	50.3	40.2
SD	3.0	3.1	3.3	3.4	3.1	3.0	3.2	3.2	3.1	3.1	3.2	3.2	3.0	3.0	2.7	2.9	3.1	3.3	3.1	3.2	3.0	3.0	3.1	5.7	5.5	5.7	5.7	5.2	16.5	5.6	5.7	13.9	12.7	9.3

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.14 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 12

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.39	.38	.37	.42	.29	.26	.33	.30	.16	.39	.48	.34	.46	.46	.45	.31	.29	.27	.34	.41	.45	.22	.35
NSQ	.45	.41	.45	.45	.39	.44	.35	.45	.19	.49	.52	.34	.46	.45	.49	.25	.41	.39	.32	.41	.54	.18	.26
IST	.62	.59	.56	.52	.54	.56	.50	.54	.44	.54	.56	.55	.60	.32	.38	.23	.54	.54	.45	.45	.51	.16	.26
DST	.58	.54	.53	.47	.54	.51	.44	.47	.43	.48	.49	.50	.54	.30	.35	.22	.54	.52	.40	.38	.44	.15	.27
RST	.57	.53	.57	.50	.52	.48	.44	.55	.37	.50	.54	.50	.57	.29	.35	.19	.53	.51	.48	.39	.49	.13	.23
NSI	.46	.43	.45	.47	.37	.39	.37	.41	.19	.48	.54	.37	.49	.49	.51	.30	.38	.36	.36	.44	.54	.21	.33
STI	.63	.59	.59	.53	.57	.55	.49	.55	.44	.54	.56	.55	.61	.33	.39	.23	.57	.56	.47	.43	.51	.16	.27
SRI	.65	.61	.62	.60	.57	.56	.52	.58	.37	.61	.65	.54	.65	.49	.55	.30	.57	.55	.48	.53	.62	.21	.34
Mean	10.0	10.2	10.2	10.1	9.9	10.0	10.2	10.0	9.9	10.0	10.0	10.2	10.2	10.0	9.9	10.0	10.0	10.1	9.8	10.1	10.0	10.0	9.9
SD	3.0	3.1	3.3	3.4	3.1	3.0	3.2	3.2	3.1	3.1	3.2	3.2	3.0	3.0	2.7	2.9	3.1	3.3	3.1	3.2	3.0	3.0	3.1

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.41	.30	.36	.47	.51	.49	.38	.51	.44	.41	.56						.72		.53
NSQ	.46	.45	.45	.49	.53	.57	.53	.53	.54	.50	.59	.72					.72		.56
IST	.65	.60	.59	.62	.39	.69	.60	.62	.67	.68	.60	.35	.37					.89	.76
DST	.60	.57	.51	.55	.36	.63	.53	.55	.62	.63	.54	.33	.35	.92				.90	.75
RST	.60	.55	.56	.59	.35	.65	.59	.60	.63	.64	.56	.36	.41	.76	.76			.78	.72
NSI	.47	.41	.44	.52	.56	.57	.50	.56	.53	.49	.62	.92	.93	.39	.37	.42			
STI	.66	.61	.59	.63	.39	.70	.61	.63	.68	.69	.60	.37	.40	.95	.96	.90	.42		
SRI	.68	.61	.62	.68	.58	.76	.67	.71	.73	.72	.73	.76	.80	.79	.79	.76	.84	.84	
Mean	100.5	99.9	100.4	100.7	99.8	100.3	99.9	100.6	100.3	100.3	100.2	100.3	98.5	99.4	99.0	99.3	198.8	297.7	198.2
SD	15.5	15.4	16.6	16.4	14.6	16.8	16.2	16.1	16.7	16.5	16.0	14.2	15.8	15.6	15.0	14.9	27.9	42.6	24.8

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.15 Intercorrelations of Subtest, Process, and Composite Scores for Age 13

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.72					.65				.68	
VC	.72																							.72					.68				.72	
IN	.66	.70																																
CO	.58	.62	.45																															
BD	.45	.48	.43	.37																					.57				.57			.61	.55	
VP	.45	.48	.43	.34	.57																				.57							.56		
MR	.44	.45	.42	.41	.39	.45																				.44			.55			.54	.54	
FW	.48	.54	.44	.36	.44	.41	.44																			.44			.61	.49		.54	.60	
PC	.42	.43	.39	.36	.25	.44	.44	.33																										
AR	.51	.55	.51	.43	.47	.47	.40	.49	.41																					.49				
DS	.42	.40	.39	.31	.32	.34	.34	.43	.24	.48																	.48		.50		.62			.41
PS	.39	.39	.39	.33	.40	.37	.36	.41	.30	.47	.48																.48					.51		.44
LN	.38	.41	.42	.35	.36	.27	.35	.37	.22	.49	.62	.47																			.62			
CD	.16	.17	.14	.24	.28	.14	.23	.19	.09	.30	.21	.24	.26															.64	.28			.30		.49
SS	.24	.24	.19	.22	.35	.27	.27	.22	.12	.30	.27	.30	.25	.64														.64						.56
CA	.12	.11	.16	.19	.22	.12	.14	.12	.11	.14	.09	.16	.16	.40	.36																			
BDn	.47	.48	.44	.34	.97	.56	.40	.44	.29	.50	.31	.41	.34	.26	.32	.21																		
BDp	.43	.45	.41	.32	.93	.56	.39	.43	.29	.49	.32	.37	.36	.29	.32	.24	.92																	
DSf	.30	.31	.31	.16	.24	.22	.27	.35	.19	.41	.79	.37	.49	.14	.16	.07	.25	.25																
DSb	.35	.29	.27	.24	.26	.23	.29	.34	.20	.31	.79	.36	.44	.13	.18	−.06	.23	.24	.46															
DSs	.39	.40	.37	.34	.29	.36	.26	.34	.16	.45	.79	.46	.55	.26	.35	.17	.28	.28	.45	.47														
CAr	.13	.10	.17	.16	.18	.10	.10	.10	.09	.14	.07	.12	.11	.34	.26	.94	.18	.21	.09	−.09	.13													
CAs	.10	.10	.12	.21	.25	.15	.18	.13	.11	.12	.11	.20	.21	.40	.42	.91	.23	.26	.04	−.01	.19	.73												
VCI	.93	.92	.73	.65	.50	.50	.48	.55	.46	.57	.44	.43	.42	.18	.26	.12	.51	.48	.33	.35	.42	.12	.11											
VSI	.51	.54	.48	.40	.89	.88	.47	.48	.39	.53	.37	.44	.36	.24	.35	.19	.87	.84	.26	.28	.37	.15	.23	.57										
FRI	.55	.58	.51	.45	.49	.51	.83	.86	.45	.53	.46	.45	.43	.25	.28	.15	.49	.49	.37	.37	.35	.12	.18	.61	.56									
WMI	.47	.46	.46	.37	.42	.41	.41	.49	.31	.55	.85	.87	.63	.26	.33	.15	.42	.40	.67	.66	.72	.12	.18	.50	.47	.53								
PSI	.22	.22	.18	.26	.34	.23	.28	.23	.12	.33	.26	.30	.28	.91	.90	.42	.32	.33	.16	.18	.34	.33	.46	.24	.32	.29	.33							
FSIQ	.76	.78	.66	.60	.70	.59	.68	.73	.46	.67	.65	.56	.57	.49	.47	.26	.69	.68	.50	.51	.57	.22	.27	.83	.73	.83	.70	.53						
QRI	.57	.63	.55	.46	.53	.51	.49	.87	.43	.86	.53	.51	.50	.28	.30	.15	.54	.54	.44	.38	.46	.14	.15	.65	.59	.81	.60	.32	.81					
AWMI	.44	.45	.45	.37	.38	.34	.38	.45	.25	.54	.90	.53	.90	.26	.29	.14	.36	.38	.72	.68	.75	.10	.17	.48	.40	.49	.83	.30	.68	.57				
NVI	.58	.61	.55	.50	.75	.72	.69	.71	.45	.64	.52	.68	.51	.53	.51	.29	.74	.73	.39	.39	.48	.24	.33	.64	.83	.83	.70	.58	.92	.78	.57			
GAI	.81	.83	.69	.61	.72	.62	.70	.76	.49	.63	.50	.51	.49	.27	.34	.19	.72	.69	.39	.40	.44	.16	.20	.88	.76	.86	.59	.34	.96	.81	.55	.87		
CPI	.41	.41	.38	.38	.46	.39	.41	.43	.25	.53	.66	.69	.55	.74	.78	.36	.45	.45	.49	.49	.63	.28	.40	.44	.48	.50	.79	.84	.75	.55	.67	.78	.56	
Mean	10.0	10.0	10.1	9.9	10.1	10.1	9.9	9.8	10.0	10.0	10.0	10.1	10.0	10.1	10.2	10.0	10.1	10.1	10.0	10.1	9.9	10.0	10.1	20.0	20.2	19.7	20.1	20.3	69.8	19.7	20.0	60.0	49.7	40.4
SD	3.0	2.8	2.9	3.0	3.0	3.0	2.8	3.0	2.9	3.0	2.9	3.0	2.8	3.3	3.1	3.2	2.8	3.0	3.1	2.9	3.0	3.3	3.1	5.5	5.2	4.9	5.1	5.7	14.2	5.1	5.1	12.2	11.2	8.8

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.16 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 13

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.26	.24	.30	.24	.23	.14	.15	.20	.09	.38	.31	.31	.33	.20	.20	.20	.23	.19	.24	.22	.28	.20	.15
NSQ	.25	.21	.34	.28	.34	.21	.26	.27	.16	.43	.36	.38	.38	.36	.33	.20	.33	.32	.26	.22	.36	.17	.21
IST	.42	.46	.44	.34	.32	.34	.27	.30	.37	.37	.21	.38	.35	.03	.15	.01	.32	.26	.18	.14	.20	−.02	.05
DST	.40	.42	.37	.34	.31	.29	.24	.26	.32	.38	.15	.33	.27	.04	.17	−.01	.30	.25	.16	.08	.14	−.03	.02
RST	.37	.39	.33	.39	.34	.26	.19	.26	.29	.35	.19	.29	.25	.07	.17	−.03	.34	.26	.13	.17	.17	−.06	−.02
NSI	.28	.25	.35	.29	.31	.19	.23	.26	.14	.44	.37	.38	.39	.31	.29	.22	.31	.28	.28	.24	.35	.20	.20
STI	.43	.45	.41	.39	.35	.32	.26	.30	.35	.39	.20	.36	.31	.05	.17	−.01	.34	.28	.17	.14	.18	−.04	.02
SRI	.44	.44	.47	.41	.41	.31	.30	.34	.30	.51	.34	.44	.43	.25	.31	.14	.41	.35	.26	.24	.32	.11	.14
Mean	10.0	10.0	10.1	9.9	10.1	10.1	9.9	9.8	10.0	10.0	10.0	10.1	10.0	10.1	10.2	10.0	10.1	10.1	10.0	10.1	9.9	10.0	10.1
SD	3.0	2.8	2.9	3.0	3.0	3.0	2.8	3.0	2.9	3.0	2.9	3.0	2.8	3.3	3.1	3.2	2.8	3.0	3.1	2.9	3.0	3.3	3.1

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.27	.21	.21	.36	.22	.33	.33	.36	.30	.28	.35						.66		.45
NSQ	.25	.31	.31	.43	.38	.43	.41	.41	.44	.34	.49	.66					.66		.46
IST	.48	.37	.34	.34	.10	.41	.39	.31	.40	.46	.26	.29	.30					.86	.74
DST	.44	.33	.30	.27	.12	.37	.37	.23	.36	.42	.23	.23	.22	.89				.89	.71
RST	.41	.34	.27	.27	.13	.37	.35	.25	.34	.40	.24	.24	.29	.72	.76			.76	.66
NSI	.28	.28	.29	.43	.33	.42	.40	.42	.41	.34	.46	.91	.92	.33	.25	.29			
STI	.48	.37	.32	.32	.12	.42	.39	.29	.39	.46	.26	.28	.29	.94	.95	.89	.31		
SRI	.47	.41	.37	.45	.31	.52	.49	.43	.50	.50	.46	.72	.75	.78	.74	.72	.81	.80	
Mean	100.0	100.5	99.0	100.2	100.9	99.8	99.2	99.9	100.0	99.6	100.6	100.2	100.4	100.3	100.2	99.0	200.5	299.6	199.8
SD	14.9	14.6	14.3	14.6	16.3	14.4	14.8	14.1	14.7	14.6	15.2	13.6	14.1	14.3	13.9	13.9	25.3	39.1	22.9

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.17 Intercorrelations of Subtest, Process, and Composite Scores for Age 14

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.66					.69				.71	
VC	.66																							.66					.66				.65	
IN	.67	.75																																
CO	.67	.66	.61																															
BD	.47	.38	.49	.37																					.63				.60			.68	.58	
VP	.54	.48	.51	.41	.63																				.63							.65		
MR	.54	.50	.49	.43	.47	.50																				.48			.62			.57	.62	
FW	.55	.55	.58	.48	.55	.60	.48																			.48			.66	.63		.65	.67	
PC	.44	.44	.38	.33	.28	.44	.43	.40																										
AR	.65	.61	.63	.54	.41	.52	.50	.63	.39																					.63				
DS	.56	.50	.43	.41	.42	.43	.49	.51	.31	.62																	.61		.64		.73			.56
PS	.45	.43	.40	.42	.44	.43	.42	.45	.37	.50	.61																.61					.57		.50
LN	.52	.57	.49	.47	.42	.41	.47	.50	.34	.56	.73	.60																			.73			
CD	.20	.28	.17	.26	.34	.19	.25	.26	.16	.31	.33	.35	.39															.50	.36			.36		.51
SS	.30	.23	.26	.20	.34	.28	.26	.30	.17	.26	.35	.20	.31	.50														.50						.45
CA	.22	.07	.15	.09	.10	.18	.18	.14	.09	.27	.04	.10	.10	.26	.36																			
BDn	.45	.34	.46	.33	.97	.60	.44	.51	.28	.37	.36	.40	.36	.31	.32	.11																		
BDp	.42	.38	.43	.33	.91	.64	.47	.52	.28	.37	.40	.40	.38	.31	.31	.12	.91																	
DSf	.40	.39	.35	.30	.30	.25	.39	.38	.19	.45	.75	.43	.50	.29	.27	.05	.26	.33																
DSb	.43	.37	.29	.28	.35	.38	.40	.36	.30	.51	.83	.54	.59	.18	.26	.08	.30	.31	.45															
DSs	.48	.46	.40	.40	.36	.40	.43	.47	.28	.56	.82	.53	.65	.32	.30	.02	.30	.32	.45	.54														
CAr	.20	.07	.11	.08	.05	.14	.13	.10	.05	.23	.06	.07	.10	.22	.31	.92	.05	.07	.07	.13	.01													
CAs	.20	.03	.18	.07	.12	.16	.21	.12	.10	.25	–.01	.08	.08	.24	.35	.90	.13	.14	.00	.02	.02	.69												
VCI	.91	.91	.78	.73	.47	.56	.57	.60	.48	.69	.58	.48	.60	.26	.29	.16	.44	.44	.44	.44	.52	.15	.13											
VSI	.56	.48	.55	.43	.90	.91	.54	.63	.40	.52	.47	.48	.46	.30	.34	.16	.87	.85	.30	.40	.42	.10	.16	.57										
FRI	.63	.61	.63	.53	.59	.64	.85	.86	.48	.65	.58	.51	.56	.29	.33	.19	.55	.58	.45	.44	.52	.14	.19	.68	.68									
WMI	.56	.52	.46	.46	.48	.48	.51	.54	.38	.62	.90	.90	.74	.38	.30	.07	.42	.45	.65	.76	.75	.08	.04	.59	.53	.61								
PSI	.28	.30	.25	.27	.39	.27	.29	.32	.19	.33	.39	.32	.41	.87	.86	.35	.36	.36	.33	.25	.36	.31	.34	.32	.37	.36	.39							
FSIQ	.78	.76	.71	.65	.72	.67	.74	.77	.49	.74	.75	.62	.71	.53	.45	.20	.67	.68	.57	.57	.66	.17	.18	.85	.77	.88	.76	.57						
QRI	.67	.64	.67	.57	.53	.62	.54	.90	.44	.90	.63	.53	.58	.31	.31	.22	.49	.49	.46	.48	.57	.18	.21	.72	.64	.84	.64	.36	.84					
AWMI	.58	.58	.50	.48	.45	.45	.52	.54	.35	.63	.92	.65	.93	.38	.35	.08	.38	.42	.67	.76	.79	.09	.04	.63	.50	.62	.88	.43	.78	.65				
NVI	.64	.61	.61	.55	.79	.78	.72	.77	.48	.66	.64	.71	.64	.55	.44	.22	.74	.75	.47	.51	.58	.17	.22	.68	.87	.87	.75	.57	.94	.80	.69			
GAI	.82	.79	.76	.66	.74	.71	.77	.80	.51	.72	.63	.56	.63	.34	.37	.18	.70	.69	.48	.49	.56	.14	.18	.88	.80	.91	.67	.41	.97	.84	.68	.90		
CPI	.51	.49	.42	.44	.52	.45	.48	.51	.34	.57	.77	.73	.69	.75	.70	.26	.47	.48	.59	.61	.66	.23	.22	.55	.54	.58	.83	.84	.80	.60	.78	.79	.64	
Mean	9.8	9.8	9.9	9.9	9.9	10.0	10.1	9.8	9.7	10.0	9.9	9.7	10.1	10.0	10.0	9.8	9.8	9.9	10.0	9.9	10.1	9.8	9.9	19.6	19.8	19.9	19.6	20.0	69.2	19.8	20.0	59.4	49.4	39.6
SD	2.9	2.9	3.1	3.1	3.0	3.0	3.0	3.1	2.9	3.0	2.9	2.9	3.1	3.1	3.0	2.9	2.9	3.0	2.9	3.1	3.1	2.9	3.0	5.2	5.4	5.3	5.2	5.2	15.0	5.5	5.6	13.0	11.6	8.7

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.18 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 14

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.16	.16	.17	.29	.13	.09	.12	.11	−.01	.24	.25	.20	.24	.26	.19	.20	.11	.03	.18	.22	.23	.19	.17
NSQ	.37	.32	.33	.38	.35	.28	.25	.34	.11	.42	.43	.32	.42	.38	.37	.17	.31	.26	.25	.36	.42	.16	.13
IST	.48	.46	.48	.32	.37	.44	.40	.43	.38	.45	.47	.46	.46	.19	.25	.04	.33	.32	.34	.36	.43	.02	.04
DST	.51	.40	.48	.34	.41	.49	.39	.45	.40	.47	.47	.47	.47	.20	.28	.05	.36	.35	.35	.38	.41	.02	.06
RST	.43	.40	.48	.39	.45	.44	.44	.44	.33	.42	.43	.43	.49	.21	.27	.06	.40	.39	.29	.33	.41	.03	.07
NSI	.29	.27	.28	.37	.26	.20	.21	.25	.05	.37	.37	.29	.36	.35	.31	.21	.23	.16	.24	.32	.36	.19	.17
STI	.50	.45	.51	.37	.44	.48	.44	.47	.39	.47	.49	.48	.50	.21	.28	.05	.39	.38	.35	.38	.44	.03	.06
SRI	.51	.45	.49	.46	.44	.42	.40	.45	.28	.53	.54	.48	.54	.36	.37	.17	.39	.34	.37	.44	.50	.15	.14
Mean	9.8	9.8	9.9	9.9	9.9	10.0	10.1	9.8	9.7	10.0	9.9	9.7	10.1	10.0	10.0	9.8	9.8	9.9	10.0	9.9	10.1	9.8	9.9
SD	2.9	2.9	3.1	3.1	3.0	3.0	3.0	3.1	2.9	3.0	2.9	2.9	3.1	3.1	3.0	2.9	2.9	3.0	2.9	3.1	3.1	2.9	3.0

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.19	.13	.14	.26	.27	.23	.19	.26	.20	.17	.31						.61		.31
NSQ	.38	.35	.34	.42	.43	.48	.42	.46	.44	.41	.51	.61					.61		.51
IST	.51	.45	.49	.52	.26	.55	.49	.50	.53	.54	.46	.11	.35					.89	.73
DST	.50	.50	.49	.52	.28	.56	.51	.51	.56	.55	.48	.14	.31	.90				.89	.73
RST	.46	.49	.51	.48	.28	.55	.48	.49	.55	.55	.45	.18	.35	.79	.79			.81	.71
NSI	.32	.27	.26	.38	.39	.39	.34	.40	.35	.32	.45	.90	.89	.25	.25	.29			
STI	.52	.51	.53	.54	.29	.59	.53	.53	.58	.58	.49	.15	.36	.95	.95	.91	.28		
SRI	.53	.48	.50	.58	.43	.62	.54	.59	.59	.57	.60	.65	.77	.76	.76	.74	.79	.80	
Mean	98.9	99.5	99.7	98.9	100.0	99.2	99.5	99.9	99.3	99.2	99.3	102.0	102.2	99.5	100.1	101.6	204.2	301.2	202.5
SD	14.2	15.2	15.3	15.1	14.8	15.2	16.0	15.6	15.7	15.2	15.1	14.8	14.1	15.4	14.8	14.9	25.9	42.4	23.9

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.19 Intercorrelations of Subtest, Process, and Composite Scores for Age 15

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.67					.64				.65	
VC	.67																							.67					.70				.72	
IN	.63	.73																																
CO	.62	.58	.58																															
BD	.48	.56	.49	.49																					.67				.63			.66	.63	
VP	.50	.61	.58	.49	.67																				.67							.67		
MR	.45	.49	.47	.41	.48	.51																				.48			.60			.55	.59	
FW	.48	.54	.54	.48	.50	.54	.48																			.48			.61	.52		.58	.62	
PC	.40	.49	.42	.45	.42	.41	.32	.37																										
AR	.50	.60	.57	.53	.49	.47	.49	.52	.53																					.52				
DS	.42	.50	.47	.42	.39	.44	.48	.45	.39	.56																	.55		.58		.67			.46
PS	.38	.43	.35	.41	.33	.36	.25	.34	.39	.48	.55																.55					.40		.43
LN	.45	.49	.46	.41	.28	.37	.41	.38	.44	.57	.67	.55																			.67			
CD	.18	.15	.07	.21	.23	.17	.17	.11	.18	.30	.24	.16	.22															.57	.24			.23		.43
SS	.28	.26	.32	.39	.37	.38	.25	.19	.25	.30	.26	.26	.24	.57														.57						.49
CA	.11	.12	.16	.24	.33	.19	.21	.16	.20	.23	.21	.19	.17	.33	.35																			
BDn	.47	.53	.46	.47	.95	.63	.49	.47	.42	.47	.38	.33	.27	.21	.35	.30																		
BDp	.45	.55	.46	.45	.92	.67	.51	.49	.38	.47	.38	.33	.28	.22	.36	.33	.91																	
DSf	.36	.43	.43	.30	.31	.35	.42	.33	.23	.43	.78	.40	.51	.19	.19	.17	.30	.29																
DSb	.31	.34	.30	.28	.24	.30	.36	.36	.29	.43	.81	.41	.54	.21	.15	.13	.23	.25	.44															
DSs	.36	.46	.42	.44	.41	.40	.37	.41	.40	.48	.83	.50	.56	.18	.28	.20	.38	.36	.51	.51														
CAr	.09	.08	.13	.20	.29	.15	.24	.15	.18	.22	.17	.16	.11	.30	.32	.94	.24	.28	.16	.10	.16													
CAs	.12	.16	.18	.24	.33	.20	.17	.15	.20	.22	.22	.20	.20	.36	.35	.93	.33	.33	.16	.14	.23	.78												
VCI	.91	.91	.74	.65	.57	.61	.51	.56	.49	.60	.50	.44	.51	.18	.30	.13	.55	.55	.44	.35	.45	.10	.15											
VSI	.54	.64	.58	.54	.91	.91	.54	.57	.45	.52	.45	.38	.36	.22	.41	.28	.87	.87	.36	.30	.44	.24	.29	.64										
FRI	.54	.59	.58	.52	.57	.61	.87	.85	.40	.59	.54	.34	.46	.16	.26	.22	.56	.58	.44	.42	.45	.23	.19	.62	.65									
WMI	.45	.53	.47	.47	.41	.45	.42	.45	.44	.59	.88	.88	.70	.22	.29	.23	.40	.40	.68	.69	.76	.19	.23	.54	.47	.50								
PSI	.26	.23	.22	.34	.34	.31	.24	.17	.25	.34	.28	.24	.26	.88	.89	.39	.31	.32	.22	.21	.26	.35	.40	.27	.36	.24	.29							
FSIQ	.75	.80	.69	.66	.75	.70	.73	.73	.53	.71	.71	.50	.59	.42	.45	.30	.72	.72	.58	.54	.62	.27	.31	.85	.79	.85	.69	.49						
QRI	.56	.65	.63	.58	.57	.58	.56	.87	.52	.87	.58	.47	.55	.24	.28	.22	.54	.55	.43	.45	.51	.21	.21	.67	.63	.82	.60	.29	.82					
AWMI	.47	.54	.51	.46	.37	.44	.48	.45	.45	.62	.92	.60	.91	.25	.27	.20	.36	.36	.71	.74	.76	.15	.23	.56	.44	.55	.86	.29	.71	.61				
NVI	.61	.68	.61	.61	.79	.80	.71	.72	.51	.67	.62	.60	.54	.45	.50	.35	.76	.77	.49	.46	.56	.32	.35	.70	.87	.84	.69	.53	.94	.80	.64			
GAI	.79	.83	.73	.66	.78	.72	.75	.76	.51	.67	.57	.44	.51	.21	.35	.24	.75	.75	.48	.41	.51	.22	.24	.89	.82	.88	.58	.32	.96	.82	.59	.90		
CPI	.44	.47	.43	.51	.47	.47	.40	.39	.43	.58	.72	.69	.59	.69	.74	.38	.45	.45	.56	.56	.63	.34	.39	.50	.52	.46	.80	.81	.73	.55	.72	.76	.56	
Mean	9.9	9.8	10.1	10.0	10.1	9.8	10.0	9.8	10.3	10.0	10.0	10.0	9.9	10.0	9.8	10.1	9.8	9.8	10.1	10.0	9.9	10.2	10.0	19.7	19.8	19.8	20.0	19.8	69.5	19.8	19.9	59.6	49.5	39.8
SD	2.9	3.0	3.2	2.9	3.0	3.0	3.1	2.9	3.1	2.9	3.0	3.0	3.0	3.0	3.0	3.3	3.1	3.0	3.0	3.0	2.9	3.3	3.1	5.4	5.5	5.1	5.2	5.3	14.5	5.0	5.5	12.1	11.6	8.5

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.20 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 15

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.11	.08	.11	.28	.16	.11	.12	.14	.12	.23	.25	.26	.28	.32	.21	.23	.14	.09	.18	.25	.20	.20	.25
NSQ	.16	.11	.13	.33	.25	.21	.12	.22	.15	.26	.27	.29	.28	.49	.33	.30	.20	.20	.17	.29	.19	.28	.31
IST	.61	.55	.50	.60	.43	.52	.42	.47	.49	.47	.42	.46	.53	.11	.25	.22	.41	.41	.37	.26	.42	.20	.24
DST	.57	.49	.46	.56	.42	.48	.39	.44	.45	.44	.36	.40	.47	.08	.26	.22	.40	.39	.34	.20	.36	.20	.23
RST	.46	.37	.35	.56	.39	.43	.35	.40	.35	.39	.32	.34	.45	.11	.20	.20	.36	.35	.28	.21	.32	.19	.21
NSI	.15	.10	.13	.33	.22	.17	.13	.20	.14	.26	.28	.29	.30	.43	.28	.29	.18	.16	.18	.28	.21	.26	.29
STI	.58	.50	.47	.61	.44	.51	.41	.47	.46	.46	.39	.43	.51	.11	.25	.23	.42	.41	.35	.24	.39	.21	.24
SRI	.47	.39	.38	.60	.43	.44	.35	.43	.39	.49	.44	.49	.54	.37	.35	.35	.39	.37	.35	.35	.40	.31	.36
Mean	9.9	9.8	10.1	10.0	10.1	9.8	10.0	9.8	10.3	10.0	10.0	10.0	9.9	10.0	9.8	10.1	9.8	9.8	10.1	10.0	9.9	10.2	10.0
SD	2.9	3.0	3.2	2.9	3.0	3.0	3.1	2.9	3.1	2.9	3.0	3.0	3.0	3.0	3.0	3.3	3.1	3.0	3.0	3.0	2.9	3.3	3.1

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.11	.16	.15	.29	.30	.24	.21	.29	.26	.15	.37						.77		.40
NSQ	.15	.26	.20	.32	.47	.33	.28	.30	.38	.21	.49	.77					.77		.47
IST	.64	.52	.52	.50	.21	.62	.54	.52	.59	.63	.44	.14	.18					.89	.67
DST	.58	.50	.49	.43	.20	.56	.51	.46	.54	.59	.39	.15	.21	.91				.90	.69
RST	.46	.45	.44	.38	.18	.49	.45	.43	.50	.50	.34	.20	.30	.78	.79			.80	.70
NSI	.14	.22	.18	.32	.41	.30	.26	.31	.34	.19	.45	.94	.94	.17	.19	.27			
STI	.59	.52	.51	.47	.21	.59	.53	.50	.58	.61	.42	.17	.25	.95	.96	.91	.22		
SRI	.47	.48	.45	.53	.41	.58	.52	.54	.60	.52	.58	.71	.76	.71	.73	.73	.78	.77	
Mean	99.2	99.5	99.4	99.9	99.6	99.6	99.4	99.7	99.5	99.5	99.6	100.1	99.9	98.2	99.8	99.8	200.0	297.8	199.4
SD	14.5	15.3	14.9	15.3	15.0	14.7	14.6	15.4	14.5	14.9	14.6	15.9	16.1	15.9	15.4	16.2	30.1	44.6	24.8

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.21 Intercorrelations of Subtest, Process, and Composite Scores for Age 16

Subtest/ Process/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI
SI																								.75					.70				.70	
VC	.75																							.75					.72				.76	
IN	.68	.71																																
CO	.66	.60	.51																															
BD	.50	.54	.50	.46																					.66				.68			.72	.63	
VP	.49	.57	.50	.38	.66																				.66							.60		
MR	.50	.55	.46	.40	.51	.43																				.51			.63			.61	.63	
FW	.52	.59	.56	.49	.52	.49	.51																			.51			.64	.65		.59	.65	
PC	.39	.40	.44	.27	.28	.38	.26	.36																										
AR	.64	.68	.62	.55	.65	.60	.53	.65	.43																					.65				
DS	.52	.51	.40	.40	.55	.43	.47	.47	.27	.61																	.56		.65		.65			.58
PS	.52	.46	.39	.39	.45	.37	.47	.38	.26	.49	.56																.56					.54		.49
LN	.49	.52	.43	.38	.42	.43	.45	.40	.27	.52	.65	.59																			.65			
CD	.32	.25	.17	.19	.42	.26	.29	.25	.14	.29	.38	.32	.22															.62	.41			.40		.56
SS	.24	.19	.21	.15	.38	.25	.23	.14	.15	.31	.42	.32	.23	.62														.62						.59
CA	.02	.05	.10	.06	.13	.09	.08	.06	.14	.14	.12	.19	.11	.31	.32																			
BDn	.51	.52	.47	.47	.96	.62	.53	.52	.29	.64	.54	.46	.41	.39	.36	.12																		
BDp	.52	.57	.49	.45	.93	.63	.53	.56	.31	.63	.54	.42	.42	.46	.39	.16	.90																	
DSf	.40	.39	.26	.27	.43	.33	.34	.33	.26	.46	.79	.38	.49	.21	.27	−.03	.43	.42																
DSb	.45	.39	.33	.33	.44	.32	.40	.35	.25	.45	.83	.47	.48	.34	.38	.12	.43	.46	.52															
DSs	.41	.47	.37	.39	.47	.38	.42	.44	.17	.54	.79	.55	.64	.37	.36	.19	.47	.43	.44	.51														
CAr	.00	.04	.07	.04	.12	.06	.08	.07	.12	.13	.13	.19	.11	.31	.29	.94	.11	.14	−.01	.13	.19													
CAs	.04	.07	.12	.11	.14	.11	.08	.06	.13	.15	.11	.18	.10	.28	.31	.92	.12	.17	−.03	.12	.17	.76												
VCI	.94	.93	.74	.68	.56	.57	.56	.59	.42	.71	.55	.52	.54	.30	.23	.04	.55	.58	.42	.45	.47	.02	.06											
VSI	.55	.61	.55	.46	.91	.91	.52	.56	.37	.68	.53	.45	.46	.37	.35	.12	.86	.85	.42	.42	.47	.10	.14	.62										
FRI	.59	.65	.58	.51	.59	.53	.88	.85	.36	.68	.54	.49	.49	.32	.21	.09	.61	.63	.38	.44	.49	.09	.08	.66	.62									
WMI	.59	.55	.44	.45	.57	.45	.53	.48	.30	.62	.89	.88	.70	.39	.42	.18	.57	.54	.67	.74	.76	.18	.16	.61	.56	.58								
PSI	.31	.25	.21	.19	.45	.28	.29	.22	.16	.33	.44	.35	.25	.91	.90	.35	.42	.47	.27	.40	.40	.33	.33	.30	.40	.29	.45							
FSIQ	.79	.81	.67	.62	.78	.64	.74	.74	.40	.78	.75	.61	.61	.57	.43	.15	.76	.79	.56	.62	.65	.15	.15	.85	.78	.85	.77	.56						
QRI	.64	.70	.65	.57	.65	.60	.57	.90	.44	.91	.60	.48	.51	.30	.25	.11	.64	.66	.43	.45	.54	.11	.12	.71	.69	.84	.61	.30	.84					
AWMI	.56	.57	.45	.43	.53	.47	.50	.48	.30	.62	.91	.63	.91	.33	.36	.13	.53	.53	.71	.72	.79	.13	.12	.60	.55	.57	.87	.38	.75	.61				
NVI	.66	.68	.59	.53	.82	.74	.75	.73	.39	.74	.66	.69	.58	.60	.45	.20	.80	.81	.46	.54	.61	.19	.20	.72	.86	.85	.76	.59	.94	.81	.68			
GAI	.82	.86	.72	.65	.77	.66	.78	.78	.42	.79	.63	.57	.57	.38	.30	.09	.76	.77	.47	.51	.55	.08	.10	.90	.78	.89	.68	.38	.97	.86	.66	.91		
CPI	.52	.46	.38	.37	.59	.43	.48	.41	.27	.55	.78	.72	.55	.77	.78	.31	.58	.59	.54	.66	.68	.30	.29	.53	.56	.51	.84	.86	.78	.53	.73	.79	.62	
Mean	10.3	10.1	10.1	10.3	10.1	10.1	9.9	9.9	10.2	10.0	10.0	10.1	10.0	9.9	10.0	10.0	10.1	10.2	9.9	10.0	9.9	9.9	10.1	20.4	20.1	19.8	20.1	20.0	70.2	19.9	20.0	59.9	50.2	40.0
SD	3.1	3.0	3.1	3.0	2.9	3.0	3.2	2.9	3.1	3.0	3.0	2.9	3.0	3.2	3.0	3.2	2.8	3.0	3.0	3.0	3.0	2.9	3.1	5.7	5.3	5.2	5.3	5.6	15.6	5.3	5.5	12.9	12.0	9.3

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Table G.22 Correlations of Complementary Scores With All Subtest, Process, and Composite Scores for Age 16

Subtest/ Composite Score	SI	VC	IN	CO	BD	VP	MR	FW	PC	AR	DS	PS	LN	CD	SS	CA	BDn	BDp	DSf	DSb	DSs	CAr	CAs
NSL	.19	.10	.18	.29	.30	.14	.14	.18	.01	.21	.36	.21	.17	.36	.34	.10	.30	.27	.25	.34	.31	.08	.13
NSQ	.25	.22	.25	.30	.40	.26	.26	.23	.06	.33	.40	.30	.20	.47	.43	.23	.39	.37	.21	.37	.40	.22	.24
IST	.52	.51	.47	.40	.46	.47	.48	.42	.33	.48	.36	.44	.38	.29	.25	.10	.44	.45	.26	.32	.31	.08	.14
DST	.46	.44	.36	.33	.44	.45	.46	.36	.31	.42	.34	.39	.33	.29	.26	.09	.41	.41	.28	.27	.28	.04	.14
RST	.46	.41	.44	.37	.46	.40	.37	.42	.30	.43	.33	.39	.39	.30	.21	.11	.42	.43	.21	.25	.35	.08	.16
NSI	.24	.17	.23	.32	.38	.22	.21	.22	.04	.30	.41	.27	.20	.45	.41	.18	.37	.35	.25	.38	.39	.16	.20
STI	.51	.48	.46	.39	.49	.47	.47	.43	.34	.47	.37	.44	.39	.31	.26	.11	.45	.46	.27	.30	.33	.07	.16
SRI	.48	.42	.43	.45	.54	.44	.44	.40	.23	.49	.50	.45	.38	.48	.43	.18	.52	.51	.32	.44	.46	.14	.22
Mean	10.3	10.1	10.1	10.3	10.1	10.1	9.9	9.9	10.2	10.0	10.0	10.1	10.0	9.9	10.0	10.0	10.1	10.2	9.9	10.0	9.9	9.9	10.1
SD	3.1	3.0	3.1	3.0	2.9	3.0	3.2	2.9	3.1	3.0	3.0	2.9	3.0	3.2	3.0	3.2	2.8	3.0	3.0	3.0	3.0	2.9	3.1

Subtest/ Composite Score	VCI	VSI	FRI	WMI	PSI	FSIQ	QRI	AWMI	NVI	GAI	CPI	NSL	NSQ	IST	DST	RST	NSI	STI	SRI
NSL	.16	.24	.18	.32	.39	.31	.22	.29	.30	.22	.42						.70		.36
NSQ	.25	.36	.28	.40	.51	.42	.31	.34	.43	.33	.53	.70					.70		.49
IST	.55	.51	.52	.45	.31	.59	.50	.41	.59	.60	.44	.13	.29					.89	.70
DST	.48	.49	.48	.42	.31	.54	.44	.37	.55	.55	.42	.11	.23	.91				.89	.67
RST	.47	.47	.45	.41	.28	.53	.47	.40	.53	.53	.40	.20	.29	.75	.75			.77	.67
NSI	.22	.33	.25	.39	.49	.40	.28	.34	.40	.29	.51	.92	.92	.23	.18	.27			
STI	.53	.52	.52	.46	.32	.59	.50	.42	.60	.60	.45	.16	.29	.95	.95	.90	.24		
SRI	.48	.53	.48	.54	.51	.63	.50	.49	.63	.57	.61	.69	.77	.73	.71	.71	.79	.77	
Mean	101.1	100.3	99.3	100.1	99.9	100.2	99.6	100.0	99.9	100.4	100.1	99.9	99.1	97.6	100.1	99.8	199.1	297.5	198.4
SD	15.3	15.0	15.2	15.4	15.7	15.8	15.5	15.3	15.4	15.5	16.0	15.7	15.8	14.6	14.8	15.6	29.1	42.0	24.0

Note. For intercorrelations, uncorrected coefficients appear below the diagonal, and corrected coefficients appear in the shaded area above the diagonal.

Appendix H

Correlations Between the WISC–V and the KTEA–3 and WIAT–III, by Age Group

Table H.1 Correlations Between the WISC–V and the KTEA–3, by Age Group

Ages 6–9	KTEA–3 Subtests																		
WISC–V Subtest/ Composite Score	**LWR**	**RC**	**NWD**	**PP**	**WRF**	**DF**	**SRF**	**RV**	**MCA**	**MC**	**MF**	**WE**	**SP**	**WF**	**LC**	**OE**	**AF**	**ONF**	**LNF**
SI	.48	.54	.10	.43	.29	.19	.18	.40	.49	.33	.20	.32	.34	.07	.36	.25	.28	.13	.36
VC	.52	.60	.44	.46	.41	.55	.27	.60	.58	.26	.30	.35	.43	–.23	.68	.48	.41	.25	.34
IN	.64	.59	.38	.50	.50	.30	.45	.58	.64	.33	.33	.36	.49	–.24	.63	.44	.28	.27	.44
CO	.43	.57	.18	.43	.28	.27	.21	.39	.57	.24	.16	.47	.36	–.12	.62	.52	.49	.21	.14
BD	.37	.31	.43	.30	.20	.43	.14	.35	.42	.40	.28	.31	.35	–.31	.18	.21	.14	.14	.15
VP	.27	.28	.24	.19	.23	.13	.24	.28	.48	.23	.24	.19	.21	–.24	.31	.23	.15	.06	.17
MR	.38	.45	.27	.38	.25	.13	.29	.39	.55	.38	.40	.31	.42	.00	.35	.20	.30	.17	.24
FW	.31	.42	.15	.48	.12	–.01	.02	.25	.61	.41	.41	.12	.22	–.26	.43	.26	.28	–.02	.15
PC	.31	.36	.47	.29	.32	.24	.09	.30	.39	.35	.26	.13	.38	–.02	.16	.28	.16	–.07	.22
AR	.44	.43	.34	.39	.08	.31	.32	.35	.57	.53	.41	.44	.43	–.16	.36	.18	.13	.12	.25
DS	.53	.43	.55	.43	.49	.56	.39	.48	.59	.26	.27	.37	.55	–.16	.49	.39	.14	.20	.56
PS	.19	.22	.10	.20	.10	–.06	.12	.10	.23	.09	.05	.06	.13	.08	.16	.13	.07	.17	.23
LN	.44	.53	.30	.49	.35	.22	.21	.41	.38	.23	.27	.38	.49	.15	.43	.41	.25	.26	.46
CD	.04	.13	–.16	.08	.08	–.16	.41	.07	.10	.23	.32	.17	.25	.55	–.02	–.14	.06	.31	.31
SS	.25	.29	.13	.17	.13	.12	.36	.17	.26	.32	.39	.23	.40	.25	.16	.07	.16	.35	.41
CA	–.02	.10	–.06	.01	–.12	–.32	–.02	.05	.03	–.07	–.04	–.15	.04	.43	.10	.12	.18	.09	.17
VCI	.61	.68	.36	.56	.45	.47	.27	.62	.65	.36	.32	.42	.49	–.13	.64	.46	.44	.24	.43
VSI	.39	.36	.41	.29	.27	.34	.24	.39	.55	.38	.32	.31	.34	–.33	.31	.27	.18	.11	.20
FRI	.43	.51	.27	.50	.24	.09	.22	.40	.68	.47	.49	.27	.41	–.14	.46	.26	.35	.10	.24
WMI	.45	.40	.40	.39	.36	.37	.32	.36	.51	.24	.21	.27	.43	–.05	.40	.32	.13	.24	.49
PSI	.20	.29	.00	.16	.15	–.01	.49	.18	.24	.36	.44	.26	.41	.49	.10	–.03	.15	.41	.45
FSIQ	.67	.70	.53	.64	.51	.47	.44	.67	.81	.55	.58	.51	.66	–.09	.65	.44	.42	.30	.53
QRI	.52	.57	.36	.58	.15	.26	.26	.42	.77	.64	.57	.42	.47	–.29	.55	.31	.28	.08	.30
AWMI	.56	.55	.49	.53	.50	.46	.35	.52	.56	.27	.32	.45	.61	.00	.55	.48	.23	.26	.58
NVI	.49	.53	.37	.48	.31	.12	.38	.45	.69	.49	.51	.36	.47	–.07	.42	.27	.30	.25	.37
GAI	.61	.66	.45	.59	.41	.42	.28	.62	.74	.52	.47	.42	.53	–.24	.57	.41	.41	.22	.38
CPI	.50	.52	.32	.42	.38	.31	.57	.42	.57	.42	.46	.41	.62	.31	.41	.26	.22	.46	.66
KTEA–3																			
Mean	99.7	99.3	96.1	101.1	99.6	98.8	96.8	98.5	98.3	96.1	95.9	97.6	98.5	96.4	96.5	95.4	98.5	96.0	95.4
SD	12.9	12.6	12.9	13.4	12.0	13.4	12.7	12.4	12.8	11.5	11.8	13.6	12.5	12.8	13.4	11.0	13.6	14.3	13.6
n	80	79	68	79	68	31	67	68	80	80	67	80	80	49	77	79	80	80	78

Note. KTEA–3 subtest abbreviations are: LWR = Letter & Word Recognition, RC = Reading Comprehension, NWD = Nonsense Word Decoding, PP = Phonological Processing, WRF = Word Recognition Fluency, DF = Decoding Fluency, SRF = Silent Reading Fluency, RV = Reading Vocabulary, MCA = Math Concepts & Applications, MC = Math Computation, MF = Math Fluency, WE = Written Expression, SP = Spelling, WF = Writing Fluency, LC = Listening Comprehension, OE = Oral Expression, AF = Associational Fluency, ONF = Object Naming Facility, LNF = Letter Naming Facility. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.1 Correlations Between the WISC–V and the KTEA–3, by Age Group *(continued)*

Ages 6–9	KTEA–3 Composites														WISC–V		
WISC–V Subtest/ Composite Score	Reading	Math	Written Language	Academic Skills Battery	Sound-Symbol	Decoding	Reading Fluency	Reading Understanding	Oral Language	Oral Fluency	Comprehension	Expression	Orthographic Processing	Academic Fluency	Mean	*SD*	*n*
SI	.54	.46	.36	.52	.24	.28	.28	.45	.37	.25	.50	.34	.30	.24	10.0	2.7	80
VC	.62	.48	.45	.59	.52	.51	.62	.63	.70	.42	.71	.49	.42	.38	10.2	2.8	80
IN	.66	.55	.47	.64	.46	.53	.30	.58	.58	.34	.68	.46	.53	.00	9.9	2.5	80
CO	.55	.46	.49	.56	.28	.27	.25	.46	.70	.44	.68	.59	.17	.01	10.1	2.5	80
BD	.37	.46	.39	.46	.40	.43	.46	.31	.25	.17	.30	.33	.25	.24	9.3	3.1	80
VP	.31	.41	.24	.37	.24	.27	.24	.29	.31	.13	.34	.24	.23	.07	10.0	3.2	80
MR	.43	.52	.41	.51	.35	.32	.21	.42	.37	.30	.47	.30	.32	.17	9.4	2.9	80
FW	.41	.56	.20	.46	.39	.24	.15	.31	.43	.16	.47	.24	.12	.00	9.9	2.4	80
PC	.36	.42	.29	.42	.45	.44	.30	.35	.26	.06	.29	.23	.37	.30	9.4	2.7	80
AR	.45	.61	.49	.59	.42	.40	.27	.41	.32	.15	.45	.40	.27	.24	9.6	2.6	80
DS	.51	.49	.52	.56	.55	.57	.54	.45	.42	.21	.49	.44	.62	.30	9.8	2.6	79
PS	.20	.19	.10	.18	.19	.13	–.11	.16	.14	.14	.22	.10	.14	–.03	9.5	2.9	80
LN	.52	.34	.49	.52	.42	.35	.27	.48	.45	.32	.54	.46	.45	.32	9.8	2.8	80
CD	.10	.17	.23	.20	–.06	–.12	.23	.08	–.02	.24	.08	.02	.31	.44	9.6	2.5	79
SS	.30	.32	.35	.37	.16	.18	.22	.22	.15	.33	.24	.20	.41	.32	9.6	2.6	80
CA	.06	–.01	–.06	.00	–.07	–.05	–.34	.05	.15	.18	.09	–.04	.03	.05	10.1	3.0	80
VCI	.70	.58	.51	.67	.49	.50	.56	.65	.67	.43	.73	.52	.45	.39	100.5	12.5	80
VSI	.41	.53	.37	.50	.39	.44	.43	.38	.35	.19	.40	.35	.29	.19	98.1	15.0	80
FRI	.50	.64	.39	.57	.45	.35	.22	.45	.47	.30	.55	.32	.30	.12	97.8	13.0	80
WMI	.45	.43	.38	.47	.46	.44	.32	.38	.35	.23	.46	.34	.48	.21	98.1	13.1	79
PSI	.26	.32	.38	.38	.08	.06	.31	.21	.09	.37	.21	.16	.46	.49	97.9	11.9	79
FSIQ	.74	.77	.66	.80	.65	.63	.64	.69	.65	.45	.75	.57	.64	.49	97.7	11.7	78
QRI	.58	.77	.50	.71	.56	.46	.33	.50	.52	.23	.61	.46	.30	.21	98.1	11.2	80
AWMI	.60	.47	.59	.62	.57	.53	.47	.54	.52	.31	.61	.54	.63	.35	98.8	13.1	79
NVI	.54	.67	.47	.63	.48	.43	.32	.48	.45	.34	.55	.38	.42	.25	96.7	12.4	79
GAI	.68	.71	.54	.72	.59	.56	.52	.65	.61	.40	.69	.50	.45	.32	98.4	12.9	80
CPI	.53	.55	.57	.63	.41	.39	.46	.45	.36	.43	.52	.39	.66	.52	97.4	11.4	78
KTEA–3																	
Mean	99.2	96.8	97.4	97.1	98.5	97.3	100.3	98.3	95.6	96.6	97.8	95.5	96.7	96.2			
SD	12.9	11.7	12.1	12.0	12.2	12.2	11.5	12.1	12.8	14.1	13.1	11.9	12.3	10.7			
n	79	80	80	79	67	68	31	68	76	80	76	79	67	31			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.1 Correlations Between the WISC–V and the KTEA–3, by Age Group *(continued)*

Ages 10–16	KTEA–3 Subtests																		
WISC–V Subtest/ Composite Score	**LWR**	**RC**	**NWD**	**PP**	**WRF**	**DF**	**SRF**	**RV**	**MCA**	**MC**	**MF**	**WE**	**SP**	**WF**	**LC**	**OE**	**AF**	**ONF**	**LNF**
SI	.61	.73	.43	.52	.46	.38	.46	.63	.71	.56	.34	.66	.46	.13	.54	.47	.37	.29	.23
VC	.68	.72	.46	.54	.66	.48	.48	.78	.72	.60	.33	.67	.48	.18	.67	.46	.41	.21	.11
IN	.57	.57	.43	.45	.57	.48	.37	.62	.69	.51	.29	.49	.38	.18	.48	.40	.34	.19	.16
CO	.39	.55	.34	.31	.46	.25	.33	.52	.53	.48	.23	.49	.35	.29	.39	.48	.39	.20	.33
BD	.42	.47	.29	.49	.37	.32	.37	.42	.61	.48	.24	.46	.32	.22	.37	.37	.39	.24	.16
VP	.37	.45	.29	.42	.31	.35	.26	.41	.53	.32	.08	.29	.21	.03	.43	.31	.31	.09	.13
MR	.35	.48	.25	.42	.29	.25	.27	.43	.56	.41	.17	.49	.22	.01	.31	.32	.27	.09	–.06
FW	.47	.55	.37	.38	.38	.39	.37	.47	.62	.49	.23	.49	.38	.15	.37	.28	.26	.31	.21
PC	.48	.36	.36	.41	.42	.44	.37	.46	.47	.23	.20	.29	.37	.13	.31	.32	.15	.20	.20
AR	.54	.62	.47	.51	.56	.51	.44	.65	.77	.64	.47	.55	.49	.36	.46	.48	.45	.37	.31
DS	.49	.49	.42	.58	.58	.50	.45	.44	.55	.40	.38	.49	.51	.29	.29	.32	.30	.38	.25
PS	.52	.49	.52	.39	.50	.42	.37	.54	.50	.37	.17	.53	.45	.35	.26	.34	.41	.30	.17
LN	.49	.39	.44	.36	.44	.44	.46	.44	.47	.44	.31	.49	.53	.33	.26	.19	.34	.36	.29
CD	.14	.01	.10	.13	.18	.10	.49	.14	.21	.20	.37	.31	.20	.42	.17	.22	.31	.25	.21
SS	.20	.13	.13	.25	.27	.20	.42	.19	.29	.31	.33	.25	.16	.27	.37	.22	.40	.23	.21
CA	.13	.18	.06	.16	.22	.12	.35	.24	.29	.12	.22	.22	.11	.14	.26	.29	.23	.21	.22
VCI	.70	.79	.48	.58	.61	.47	.50	.77	.78	.63	.37	.72	.51	.17	.66	.51	.43	.27	.19
VSI	.44	.53	.33	.52	.39	.38	.36	.47	.66	.45	.19	.42	.30	.14	.47	.39	.40	.19	.17
FRI	.50	.61	.38	.49	.40	.40	.39	.55	.71	.55	.25	.59	.38	.11	.41	.37	.32	.26	.10
WMI	.57	.55	.52	.55	.60	.51	.46	.55	.59	.43	.32	.57	.53	.35	.31	.36	.39	.38	.25
PSI	.20	.08	.13	.22	.25	.17	.51	.19	.29	.29	.39	.31	.20	.38	.31	.25	.40	.29	.23
FSIQ	.66	.72	.49	.65	.61	.51	.60	.70	.82	.66	.44	.74	.54	.29	.57	.52	.49	.38	.23
QRI	.57	.66	.48	.50	.53	.51	.45	.64	.79	.65	.40	.59	.49	.28	.47	.43	.40	.38	.29
AWMI	.53	.48	.46	.51	.55	.51	.49	.48	.55	.45	.37	.53	.56	.33	.29	.27	.34	.40	.29
NVI	.60	.64	.48	.59	.53	.48	.55	.63	.78	.60	.33	.66	.46	.30	.50	.49	.50	.35	.21
GAI	.65	.74	.45	.61	.55	.46	.50	.69	.81	.65	.33	.69	.49	.18	.58	.47	.42	.30	.17
CPI	.49	.41	.42	.49	.56	.44	.63	.48	.57	.47	.47	.57	.48	.47	.41	.41	.50	.43	.31
KTEA–3																			
Mean	98.6	100.5	99.6	100.6	101.0	100.4	103.0	99.8	99.2	100.4	100.1	100.5	100.5	99.3	97.9	97.9	99.1	97.5	99.5
SD	13.7	14.9	13.1	11.6	14.0	12.9	13.9	13.8	15.4	13.8	13.0	14.0	13.2	14.8	14.4	15.0	15.6	14.2	13.4
n	127	122	127	127	125	126	125	127	127	127	127	126	126	127	124	127	127	127	127

Note. KTEA–3 subtest abbreviations are: LWR = Letter & Word Recognition, RC = Reading Comprehension, NWD = Nonsense Word Decoding, PP = Phonological Processing, WRF = Word Recognition Fluency, DF = Decoding Fluency, SRF = Silent Reading Fluency, RV = Reading Vocabulary, MCA = Math Concepts & Applications, MC = Math Computation, MF = Math Fluency, WE = Written Expression, SP = Spelling, WF = Writing Fluency, LC = Listening Comprehension, OE = Oral Expression, AF = Associational Fluency, ONF = Object Naming Facility, LNF = Letter Naming Facility. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.1 Correlations Between the WISC–V and the KTEA–3, by Age Group *(continued)*

Ages 10–16	KTEA–3 Composites														WISC–V		
WISC–V Subtest/ Composite Score	**Reading**	**Math**	**Written Language**	**Academic Skills Battery**	**Sound-Symbol**	**Decoding**	**Reading Fluency**	**Reading Understanding**	**Oral Language**	**Oral Fluency**	**Comprehension**	**Expression**	**Orthographic Processing**	**Academic Fluency**	**Mean**	***SD***	***n***
SI	.73	.68	.64	.76	.56	.56	.49	.74	.62	.40	.72	.67	.49	.37	10.2	2.7	127
VC	.77	.70	.64	.79	.58	.62	.61	.82	.70	.38	.79	.67	.53	.43	9.7	2.8	125
IN	.63	.65	.50	.67	.52	.54	.54	.65	.57	.32	.61	.54	.48	.42	9.9	3.1	127
CO	.53	.54	.47	.60	.39	.39	.41	.59	.59	.36	.54	.58	.49	.34	9.7	2.9	127
BD	.49	.59	.44	.57	.45	.37	.43	.49	.51	.39	.49	.49	.35	.35	10.0	2.7	127
VP	.45	.46	.29	.44	.42	.36	.34	.48	.49	.25	.49	.37	.27	.20	9.7	2.9	127
MR	.45	.53	.41	.51	.38	.32	.32	.51	.40	.22	.46	.48	.19	.18	9.8	2.8	127
FW	.57	.60	.49	.62	.45	.45	.43	.56	.40	.34	.53	.46	.42	.34	9.7	3.0	127
PC	.46	.39	.37	.45	.45	.46	.47	.45	.35	.21	.40	.36	.42	.34	9.9	2.6	127
AR	.64	.76	.59	.75	.58	.54	.57	.70	.63	.50	.63	.62	.58	.60	10.0	2.9	127
DS	.55	.52	.56	.61	.59	.49	.61	.52	.41	.41	.46	.46	.57	.52	9.9	2.8	127
PS	.55	.47	.55	.61	.53	.56	.51	.56	.45	.44	.44	.51	.47	.43	9.6	2.6	127
LN	.48	.49	.57	.57	.48	.50	.51	.46	.36	.43	.38	.40	.52	.47	10.0	2.7	127
CD	.08	.22	.29	.26	.14	.13	.34	.08	.34	.35	.10	.32	.25	.40	10.0	2.7	127
SS	.17	.32	.23	.30	.22	.18	.37	.18	.48	.39	.28	.29	.29	.36	9.9	2.8	127
CA	.18	.23	.20	.21	.13	.10	.28	.23	.36	.27	.26	.30	.24	.23	10.4	2.9	127
VCI	.82	.75	.69	.83	.61	.64	.60	.84	.72	.43	.82	.73	.56	.45	99.9	13.7	125
VSI	.53	.60	.40	.57	.50	.41	.43	.55	.57	.37	.56	.49	.35	.31	99.1	13.6	127
FRI	.61	.68	.55	.68	.51	.47	.46	.64	.49	.36	.60	.57	.38	.33	98.7	14.2	127
WMI	.62	.55	.62	.68	.63	.59	.62	.61	.49	.48	.51	.55	.58	.53	98.3	14.0	127
PSI	.14	.31	.30	.32	.21	.18	.40	.14	.46	.43	.21	.34	.31	.44	99.5	13.5	127
FSIQ	.76	.80	.72	.84	.66	.62	.66	.78	.71	.52	.75	.74	.58	.54	99.1	13.8	125
QRI	.68	.77	.62	.78	.58	.57	.57	.71	.58	.48	.65	.62	.57	.53	99.1	14.9	127
AWMI	.56	.54	.62	.64	.58	.53	.60	.53	.41	.45	.45	.46	.59	.53	99.8	14.0	127
NVI	.67	.74	.63	.75	.63	.58	.60	.69	.67	.51	.66	.68	.50	.48	98.4	13.3	127
GAI	.76	.78	.67	.82	.62	.60	.58	.79	.67	.44	.76	.69	.51	.42	99.2	14.4	125
CPI	.49	.56	.60	.64	.54	.49	.65	.49	.61	.58	.47	.58	.57	.62	98.6	13.3	127
KTEA–3																	
Mean	99.5	99.7	100.2	99.3	100.0	98.8	101.1	99.8	97.6	97.9	99.4	99.0	99.7	99.3			
SD	14.4	14.6	13.1	14.4	12.6	13.3	13.7	14.7	14.7	15.3	14.5	14.2	13.4	13.1			
n	122	127	125	120	127	127	123	122	124	127	121	126	124	126			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.2 Correlations Between WISC–V Complementary Scores and the KTEA–3, by Age Group

Ages 6–9	KTEA–3 Subtests																		
WISC–V Subtest/ Composite Score	**LWR**	**RC**	**NWD**	**PP**	**WRF**	**DF**	**SRF**	**RV**	**MCA**	**MC**	**MF**	**WE**	**SP**	**WF**	**LC**	**OE**	**AF**	**ONF**	**LNF**
NSL	.23	.21	.12	.00	.28	.27	.22	.21	.15	.06	.24	.08	.19	.32	.15	–.04	.08	.29	.34
NSQ	.38	.39	.18	.14	.30	.28	.32	.23	.44	.37	.55	.15	.26	.21	.22	.05	.22	.41	.50
IST	.31	.16	.35	.33	.32	.38	.27	.15	.15	–.02	.04	.18	.26	–.23	.20	.37	.14	.27	.42
DST	.36	.25	.32	.33	.39	.44	.30	.23	.29	.12	.14	.21	.32	–.20	.29	.35	.25	.31	.45
RST	.31	.21	.33	.35	.28	.21	.15	.11	.23	–.04	.04	.11	.21	–.23	.18	.31	.33	.18	.32
NSI	.33	.32	.17	.08	.32	.32	.31	.24	.33	.23	.45	.12	.26	.30	.21	–.01	.15	.38	.48
STI	.34	.23	.35	.36	.35	.37	.25	.17	.23	.01	.09	.19	.28	–.23	.24	.35	.25	.25	.43
SRI	.48	.40	.37	.28	.48	.47	.42	.30	.40	.20	.42	.23	.39	.10	.31	.21	.28	.47	.64
KTEA–3																			
Mean	99.7	99.3	96.1	101.1	99.6	98.8	96.8	98.5	98.3	96.1	95.9	97.6	98.5	96.4	96.5	95.4	98.5	96.0	95.4
SD	12.9	12.6	12.9	13.4	12.0	13.4	12.7	12.4	12.8	11.5	11.8	13.6	12.5	12.8	13.4	11.0	13.6	14.3	13.6
n	80	79	68	79	68	31	67	68	80	80	67	80	80	49	77	79	80	80	78

Ages 6–9	KTEA–3 Composites														WISC–V		
WISC–V Subtest/ Composite Score	**Reading**	**Math**	**Written Language**	**Academic Skills Battery**	**Sound-Symbol**	**Decoding**	**Reading Fluency**	**Reading Understanding**	**Oral Language**	**Oral Fluency**	**Comprehension**	**Expression**	**Orthographic Processing**	**Academic Fluency**	**Mean**	***SD***	***n***
NSL	.23	.12	.15	.20	.04	.16	.35	.20	.08	.24	.22	.03	.33	.52	99.2	16.0	77
NSQ	.41	.45	.21	.42	.11	.25	.33	.26	.22	.41	.35	.12	.38	.49	100.2	14.2	80
IST	.24	.08	.26	.22	.42	.33	.43	.15	.31	.26	.21	.31	.39	.26	99.1	12.8	80
DST	.32	.23	.31	.33	.37	.32	.50	.23	.40	.34	.31	.33	.42	.30	99.5	13.0	80
RST	.27	.11	.19	.21	.42	.32	.28	.15	.35	.31	.20	.23	.26	.18	100.2	13.4	80
NSI	.35	.31	.20	.34	.09	.22	.39	.25	.16	.34	.31	.07	.41	.58	99.4	15.5	77
STI	.29	.14	.27	.27	.41	.34	.44	.18	.37	.32	.26	.32	.37	.28	99.3	13.1	80
SRI	.46	.33	.34	.44	.34	.41	.55	.32	.36	.48	.41	.25	.57	.59	98.8	13.8	77
KTEA–3																	
Mean	99.2	96.8	97.4	97.1	98.5	97.3	100.3	98.3	95.6	96.6	97.8	95.5	96.7	96.2			
SD	12.9	11.7	12.1	12.0	12.2	12.2	11.5	12.1	12.8	14.1	13.1	11.9	12.3	10.7			
n	79	80	80	79	67	68	31	68	76	80	76	79	67	31			

Note. KTEA–3 subtest abbreviations are: LWR = Letter & Word Recognition, RC = Reading Comprehension, NWD = Nonsense Word Decoding, PP = Phonological Processing, WRF = Word Recognition Fluency, DF = Decoding Fluency, SRF = Silent Reading Fluency, RV = Reading Vocabulary, MCA = Math Concepts & Applications, MC = Math Computation, MF = Math Fluency, WE = Written Expression, SP = Spelling, WF = Writing Fluency, LC = Listening Comprehension, OE = Oral Expression, AF = Associational Fluency, ONF = Object Naming Facility, LNF = Letter Naming Facility. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.2 Correlations Between WISC–V Complementary Scores and the KTEA–3, by Age Group *(continued)*

Ages 10–16	KTEA–3 Subtests																		
WISC–V Subtest/ Composite Score	**LWR**	**RC**	**NWD**	**PP**	**WRF**	**DF**	**SRF**	**RV**	**MCA**	**MC**	**MF**	**WE**	**SP**	**WF**	**LC**	**OE**	**AF**	**ONF**	**LNF**
NSL	.17	.07	.31	.08	.37	.39	.24	.12	.09	.01	.01	.11	.29	.36	–.14	.29	.32	.35	.56
NSQ	.21	.14	.31	.07	.30	.36	.35	.22	.28	.17	.18	.25	.24	.42	–.06	.40	.47	.35	.58
IST	.55	.45	.51	.38	.49	.38	.39	.49	.49	.38	.10	.51	.36	.29	.33	.44	.35	.23	.27
DST	.54	.41	.53	.44	.47	.38	.39	.50	.47	.41	.12	.51	.36	.24	.30	.43	.26	.25	.20
RST	.54	.42	.57	.39	.38	.36	.40	.48	.52	.41	.13	.53	.39	.30	.26	.41	.39	.28	.27
NSI	.20	.10	.32	.08	.37	.42	.34	.17	.19	.10	.13	.18	.29	.40	–.09	.36	.42	.36	.59
STI	.59	.46	.57	.44	.47	.40	.43	.53	.52	.42	.15	.56	.40	.27	.31	.44	.34	.27	.25
SRI	.48	.34	.54	.32	.52	.52	.48	.41	.43	.32	.19	.44	.42	.40	.13	.48	.46	.38	.54
KTEA–3																			
Mean	98.6	100.5	99.6	100.6	101.0	100.4	103.0	99.8	99.2	100.4	100.1	100.5	100.5	99.3	97.9	97.9	99.1	97.5	99.5
SD	13.7	14.9	13.1	11.6	14.0	12.9	13.9	13.8	15.4	13.8	13.0	14.0	13.2	14.8	14.4	15.0	15.6	14.2	13.4
n	127	122	127	127	125	126	125	127	127	127	127	126	126	127	124	127	127	127	127

Ages 10–16	KTEA–3 Composites														WISC–V		
WISC–V Subtest/ Composite Score	**Reading**	**Math**	**Written Language**	**Academic Skills Battery**	**Sound-Symbol**	**Decoding**	**Reading Fluency**	**Reading Understanding**	**Oral Language**	**Oral Fluency**	**Comprehension**	**Expression**	**Orthographic Processing**	**Academic Fluency**	**Mean**	***SD***	***n***
NSL	.13	.06	.21	.17	.24	.25	.40	.11	.22	.41	–.04	.25	.51	.35	100.8	15.2	127
NSQ	.19	.24	.27	.25	.24	.28	.40	.19	.36	.51	.04	.39	.47	.44	100.4	14.3	127
IST	.55	.46	.51	.55	.53	.57	.49	.53	.50	.36	.45	.57	.47	.35	98.7	14.4	127
DST	.53	.47	.50	.55	.57	.57	.48	.51	.45	.31	.42	.56	.43	.34	98.7	14.6	127
RST	.53	.51	.52	.57	.57	.59	.43	.50	.46	.40	.38	.55	.42	.36	99.5	14.0	127
NSI	.16	.16	.25	.22	.25	.28	.45	.15	.31	.48	.00	.32	.53	.43	100.7	15.2	127
STI	.59	.51	.56	.61	.61	.63	.52	.56	.50	.37	.45	.59	.47	.37	98.6	14.4	127
SRI	.45	.40	.50	.50	.52	.55	.60	.42	.48	.52	.27	.56	.63	.51	99.6	14.8	127
KTEA–3																	
Mean	99.5	99.7	100.2	99.3	100.0	98.8	101.1	99.8	97.6	97.9	99.4	99.0	99.7	99.3			
SD	14.4	14.6	13.1	14.4	12.6	13.3	13.7	14.7	14.7	15.3	14.5	14.2	13.4	13.1			
n	122	127	125	120	127	127	123	122	124	127	121	126	124	126			

Note. KTEA–3 subtest abbreviations are: LWR = Letter & Word Recognition, RC = Reading Comprehension, NWD = Nonsense Word Decoding, PP = Phonological Processing, WRF = Word Recognition Fluency, DF = Decoding Fluency, SRF = Silent Reading Fluency, RV = Reading Vocabulary, MCA = Math Concepts & Applications, MC = Math Computation, MF = Math Fluency, WE = Written Expression, SP = Spelling, WF = Writing Fluency, LC = Listening Comprehension, OE = Oral Expression, AF = Associational Fluency, ONF = Object Naming Facility, LNF = Letter Naming Facility. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.3 Correlations Between the WISC–V and the WIAT–III, by Age Group

Ages 6–9	WIAT–III Subtests																		
WISC–V Subtest/ Composite Score	**LC**	**ERS**	**RC**	**MPS**	**AWF**	**SC**	**WR**	**EC**	**EC-GM[a]**	**PD**	**NO**	**OE**	**ORF**	**ORA[a]**	**ORR[a]**	**SP**	**MFA**	**MFS**	**MFM**
SI	.62	.57	.61	.51	.38	.61	.56	.14	.27	.53	.28	.57	.56	.52	.53	.58	.41	.28	.10
VC	.56	.32	.51	.51	.31	.48	.39	.45	.35	.39	.12	.61	.39	.34	.36	.43	.32	.31	.07
IN	.53	.45	.46	.54	.35	.42	.44	.34	.28	.44	.31	.50	.26	.30	.23	.46	.27	.34	.07
CO	.60	.42	.50	.53	.16	.24	.42	.59	.45	.39	.17	.55	.28	.16	.31	.38	.11	.19	.20
BD	.38	.25	.36	.53	.37	.46	.25	.51	.45	.29	.16	.14	.11	.16	.16	.32	.26	.34	.02
VP	.39	.35	.52	.60	.35	.35	.17	.55	.35	.06	.18	.29	.14	–.02	.13	.19	.41	.52	.07
MR	.36	.34	.41	.50	.17	.30	.28	.25	.26	.23	.27	.24	.02	.12	.02	.26	.21	.31	–.11
FW	.06	.13	.19	.37	–.04	.18	.25	.19	.11	.22	.20	.12	.11	.22	.12	.31	.18	.38	.12
PC	.26	.21	.27	.43	.18	.24	.21	.41	.29	.21	.26	.32	.14	.22	.18	.24	.24	.36	.45
AR	.57	.36	.47	.71	.37	.59	.47	.54	.53	.47	.52	.39	.34	.28	.32	.60	.60	.73	.35
DS	.61	.61	.46	.68	.10	.41	.68	.32	.28	.60	.31	.70	.52	.49	.53	.64	.26	.52	.43
PS	.50	.31	.34	.38	.12	.32	.33	.34	.25	.26	.16	.30	.18	.20	.16	.35	.29	.33	.14
LN	.56	.42	.48	.65	.26	.49	.41	.51	.40	.36	.35	.59	.50	.39	.48	.51	.45	.47	.42
CD	.31	.22	.37	.46	.16	.43	.20	.51	.39	.23	.35	.28	.31	.31	.25	.31	.45	.49	.40
SS	.12	.26	.30	.38	.17	.33	.32	.22	.13	.22	.39	.23	.40	.28	.37	.35	.39	.49	.35
CA	–.05	–.12	.01	.05	.18	–.03	–.14	–.06	–.15	–.21	–.01	–.01	–.03	–.09	–.01	–.10	.14	.10	–.18
VCI	.71	.56	.69	.63	.43	.67	.59	.44	.40	.57	.25	.72	.60	.54	.56	.62	.46	.38	.10
VSI	.44	.35	.51	.65	.41	.47	.24	.61	.47	.20	.20	.25	.14	.08	.17	.30	.39	.49	.07
FRI	.24	.27	.34	.50	.07	.27	.31	.26	.22	.26	.27	.21	.09	.21	.09	.34	.23	.40	.01
WMI	.64	.54	.46	.61	.10	.43	.57	.37	.30	.48	.24	.57	.39	.38	.38	.57	.30	.48	.28
PSI	.22	.25	.35	.46	.17	.40	.29	.36	.28	.23	.41	.26	.39	.32	.33	.36	.46	.53	.39
FSIQ	.71	.58	.70	.85	.33	.71	.63	.66	.57	.60	.37	.65	.55	.58	.54	.69	.51	.67	.32
QRI	.41	.33	.43	.69	.21	.50	.47	.46	.41	.46	.47	.34	.30	.34	.28	.58	.50	.69	.31
AWMI	.63	.53	.51	.72	.21	.50	.57	.48	.40	.50	.35	.70	.57	.49	.56	.61	.39	.54	.47
NVI	.54	.43	.58	.73	.32	.55	.40	.61	.47	.34	.35	.38	.25	.28	.24	.47	.48	.62	.19
GAI	.66	.57	.69	.77	.43	.68	.59	.55	.51	.56	.36	.58	.45	.49	.44	.63	.48	.55	.08
CPI	.53	.46	.51	.68	.16	.53	.52	.51	.39	.44	.43	.51	.52	.45	.47	.58	.50	.66	.47
WIAT–III																			
Mean	99.1	100.1	100.9	99.4	103.6	98.5	99.5	96.9	100.9	99.9	99.7	99.4	101.2	100.7	101.0	101.4	100.8	99.9	107.3
SD	15.8	14.3	13.9	12.5	14.7	14.5	14.0	14.5	11.7	14.2	12.5	11.6	13.5	13.6	13.8	13.2	13.1	14.7	17.7
n	66	55	63	66	55	63	62	31	31	61	66	66	61	61	61	66	62	62	31

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, AWF = Alphabet Writing Fluency, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

Table H.3 Correlations Between the WISC–V and the WIAT–III, by Age Group *(continued)*

Ages 6–9	WIAT–III Composites								WISC–V		
WISC–V Subtest/ Composite Score	Oral Language	Total Reading	Basic Reading	Reading Comprehension and Fluency	Written Expression	Mathematics	Math Fluency	Total Achievement	Mean	*SD*	*n*
SI	.65	.65	.59	.55	.63	.44	.39	.61	9.6	2.5	66
VC	.64	.47	.41	.48	.47	.36	.29	.55	9.5	2.9	66
IN	.56	.44	.45	.36	.44	.49	.28	.52	9.9	2.5	66
CO	.63	.38	.42	.41	.38	.39	.16	.44	10.0	2.5	66
BD	.32	.24	.26	.12	.51	.39	.32	.46	9.8	2.7	66
VP	.38	.22	.12	.42	.40	.44	.46	.39	9.9	2.8	66
MR	.33	.19	.25	.02	.28	.43	.27	.32	10.4	2.5	66
FW	.09	.24	.24	.24	.18	.32	.29	.22	9.7	2.7	66
PC	.32	.24	.24	.24	.32	.40	.38	.36	10.1	3.2	66
AR	.54	.48	.48	.43	.64	.69	.72	.65	10.2	2.7	66
DS	.71	.67	.66	.60	.52	.58	.45	.73	9.9	2.3	65
PS	.46	.31	.33	.23	.38	.31	.38	.47	9.3	2.7	66
LN	.63	.49	.40	.59	.56	.57	.55	.63	10.0	3.0	66
CD	.32	.29	.22	.41	.36	.46	.54	.35	10.4	2.8	65
SS	.19	.31	.27	.38	.30	.44	.53	.32	10.3	2.9	66
CA	–.03	–.08	–.16	.05	–.01	.02	.13	–.02	9.9	2.6	66
VCI	.78	.68	.62	.65	.67	.50	.43	.72	97.5	12.3	66
VSI	.40	.27	.21	.34	.53	.49	.44	.49	99.1	13.6	66
FRI	.24	.26	.28	.17	.26	.44	.33	.31	100.2	13.1	66
WMI	.67	.57	.56	.46	.51	.51	.46	.70	98.0	12.2	65
PSI	.25	.32	.25	.41	.35	.49	.58	.36	102.1	14.7	65
FSIQ	.74	.71	.64	.66	.72	.72	.64	.82	99.4	11.1	64
QRI	.41	.48	.47	.40	.54	.65	.63	.57	99.5	12.7	66
AWMI	.73	.64	.56	.66	.59	.62	.55	.75	100.2	13.1	65
NVI	.51	.42	.38	.42	.56	.62	.59	.59	99.2	12.9	65
GAI	.68	.62	.59	.52	.68	.64	.54	.72	98.6	11.5	66
CPI	.57	.56	.50	.59	.54	.64	.68	.66	99.9	12.9	64
WIAT–III											
Mean	99.0	101.1	99.8	102.0	99.5	99.5	102.2	100.8			
SD	14.2	12.7	14.4	13.1	14.0	11.9	13.5	12.0			
n	66	59	61	43	65	66	61	60			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.3 Correlations Between the WISC–V and the WIAT–III, by Age Group *(continued)*

Ages 10–16	WIAT–III Subtests																
WISC–V Subtest/ Composite Score	**LC**	**RC**	**MPS**	**SC**	**WR**	**EC**	**EC-GM[a]**	**PD**	**NO**	**OE**	**ORF**	**ORA[a]**	**ORR[a]**	**SP**	**MFA**	**MFS**	**MFM**
SI	.65	.55	.41	.33	.40	.34	.28	.22	.55	.66	.39	.19	.39	.42	.20	.35	.30
VC	.68	.46	.39	.41	.53	.25	.20	.33	.46	.62	.42	.25	.43	.52	.10	.23	.18
IN	.56	.36	.33	.36	.55	.18	.16	.44	.39	.56	.36	.22	.37	.55	.13	.26	.20
CO	.57	.50	.30	.32	.46	.29	.25	.25	.45	.52	.30	.16	.30	.37	.12	.28	.21
BD	.26	.23	.37	.25	.23	.10	.05	.27	.29	.39	.20	–.02	.22	.23	.09	.14	.13
VP	.42	.18	.29	.13	.22	.08	.08	.16	.25	.40	.12	.01	.14	.24	.01	.11	.01
MR	.23	.32	.31	.24	.29	.18	.24	.25	.23	.21	.14	.32	.14	.38	.14	.25	.17
FW	.34	.27	.42	.24	.26	.27	.24	.14	.40	.43	.06	.00	.05	.24	.15	.25	.26
PC	.27	.22	.11	.17	.18	.17	.10	.14	.22	.35	.11	.01	.12	.22	.01	.04	.04
AR	.37	.40	.59	.34	.45	.22	.26	.39	.52	.51	.37	.24	.35	.50	.51	.58	.50
DS	.34	.27	.35	.33	.51	.12	.16	.48	.43	.46	.30	.27	.29	.54	.33	.43	.38
PS	.32	.23	.18	.27	.32	.22	.24	.39	.26	.25	.15	.13	.16	.36	.00	.21	.09
LN	.40	.30	.39	.41	.36	.18	.21	.39	.45	.60	.48	.20	.46	.49	.31	.44	.51
CD	.15	.18	.23	.23	.19	.25	.28	.13	.35	.13	.40	.19	.39	.27	.41	.39	.43
SS	.21	.12	.20	.15	.08	.22	.20	.07	.24	.14	.24	.08	.23	.24	.32	.32	.29
CA	.06	.05	.00	.14	–.01	–.03	–.01	.07	.11	.16	.20	.10	.19	.01	.07	.04	.06
VCI	.72	.56	.45	.42	.51	.33	.27	.31	.56	.70	.45	.25	.46	.52	.17	.32	.27
VSI	.40	.24	.37	.22	.26	.10	.07	.24	.31	.45	.18	–.01	.21	.27	.06	.15	.08
FRI	.35	.36	.44	.29	.34	.27	.30	.24	.39	.39	.13	.21	.12	.39	.20	.32	.26
WMI	.37	.27	.31	.34	.47	.19	.22	.48	.40	.41	.26	.23	.26	.51	.21	.37	.28
PSI	.19	.16	.23	.20	.15	.26	.26	.11	.33	.15	.34	.15	.34	.28	.40	.40	.40
FSIQ	.63	.56	.61	.51	.59	.38	.37	.46	.66	.69	.47	.31	.47	.63	.38	.52	.47
QRI	.45	.43	.64	.38	.46	.32	.33	.34	.57	.60	.28	.17	.26	.46	.42	.54	.47
AWMI	.44	.33	.43	.43	.50	.18	.21	.50	.51	.60	.45	.28	.44	.58	.37	.50	.51
NVI	.48	.40	.51	.38	.42	.31	.31	.37	.50	.50	.31	.19	.32	.48	.24	.39	.31
GAI	.64	.55	.57	.44	.51	.36	.31	.37	.58	.67	.37	.22	.37	.54	.24	.39	.32
CPI	.35	.28	.35	.34	.37	.29	.31	.35	.46	.35	.39	.24	.38	.50	.41	.49	.44
WIAT–III																	
Mean	104.8	102.8	101.3	100.6	102.4	101.2	101.7	102.5	101.2	101.3	104.1	99.8	103.5	100.4	100.0	99.5	99.2
SD	13.1	12.1	12.0	12.7	9.8	16.2	16.3	12.3	12.0	12.7	11.0	12.9	9.5	13.1	13.4	12.9	13.9
n	145	144	145	145	143	145	145	143	145	144	145	145	145	145	145	145	145

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, AWF = Alphabet Writing Fluency, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

Table H.3 Correlations Between the WISC–V and the WIAT–III, by Age Group *(continued)*

Ages 10–16	WIAT–III Composites								WISC–V		
WISC–V Subtest/ Composite Score	**Oral Language**	**Total Reading**	**Basic Reading**	**Reading Comprehension and Fluency**	**Written Expression**	**Mathematics**	**Math Fluency**	**Total Achievement**	**Mean**	***SD***	***n***
SI	.72	.52	.33	.59	.47	.54	.31	.69	10.1	2.4	145
VC	.72	.57	.45	.56	.50	.47	.19	.69	10.3	2.5	145
IN	.62	.56	.53	.46	.46	.41	.22	.62	10.1	2.6	145
CO	.60	.49	.37	.51	.40	.42	.22	.60	10.4	2.7	145
BD	.36	.32	.27	.27	.24	.37	.14	.40	10.2	2.6	145
VP	.46	.23	.20	.19	.19	.31	.04	.34	10.3	2.7	145
MR	.24	.34	.30	.30	.33	.30	.21	.38	10.0	2.7	145
FW	.43	.26	.23	.22	.32	.45	.25	.43	9.9	2.6	144
PC	.34	.22	.18	.21	.24	.19	.03	.31	10.4	2.9	145
AR	.49	.53	.46	.49	.46	.62	.58	.63	10.2	2.7	145
DS	.44	.51	.54	.35	.41	.44	.42	.55	10.1	2.8	145
PS	.32	.36	.37	.25	.35	.25	.10	.42	9.9	2.6	145
LN	.55	.51	.42	.49	.45	.48	.46	.60	10.0	2.8	145
CD	.16	.30	.16	.35	.32	.33	.45	.33	10.0	2.8	145
SS	.20	.16	.08	.22	.25	.24	.34	.24	10.0	3.2	145
CA	.12	.09	.04	.14	.06	.06	.07	.11	10.4	2.9	145
VCI	.77	.61	.43	.64	.53	.56	.28	.75	101.3	12.0	145
VSI	.47	.32	.27	.26	.24	.39	.10	.42	101.2	13.0	145
FRI	.41	.37	.32	.32	.40	.46	.29	.49	99.5	13.0	144
WMI	.43	.48	.51	.34	.43	.40	.31	.54	99.8	13.7	145
PSI	.19	.25	.13	.31	.31	.32	.44	.31	100.2	15.0	145
FSIQ	.73	.68	.57	.63	.63	.70	.51	.80	100.5	11.8	144
QRI	.58	.50	.43	.45	.49	.67	.52	.67	100.2	12.6	144
AWMI	.57	.58	.55	.48	.49	.53	.51	.65	100.1	13.5	145
NVI	.54	.50	.42	.45	.49	.56	.34	.62	100.1	12.4	144
GAI	.71	.60	.47	.58	.56	.64	.35	.74	100.6	11.9	144
CPI	.39	.46	.39	.42	.47	.46	.49	.53	100.0	13.9	145
WIAT–III											
Mean	103.5	102.5	102.3	103.8	100.7	101.3	99.7	102.6			
SD	13.6	11.4	10.9	11.4	13.5	11.6	13.4	11.6			
n	144	142	143	144	145	145	145	141			

Note. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

Table H.4 Correlations Between WISC–V Complementary Scores and the WIAT–III, by Age Group

Ages 6–9	WIAT–III Subtests																		
WISC–V Subtest/ Composite Score	**LC**	**ERS**	**RC**	**MPS**	**AWF**	**SC**	**WR**	**EC**	**EC-GM[a]**	**PD**	**NO**	**OE**	**ORF**	**ORA[a]**	**ORR[a]**	**SP**	**MFA**	**MFS**	**MFM**
NSL	.19	.16	.12	.22	.36	.17	.24	.20	.20	.23	.25	.25	.26	.28	.21	.25	.10	.20	.47
NSQ	.39	.30	.42	.54	.33	.50	.30	.42	.38	.30	.49	.48	.54	.37	.46	.38	.41	.48	.47
IST	.42	.28	.30	.40	.13	.20	.25	.02	–.04	.22	.21	.42	.26	.22	.18	.22	.20	.10	–.13
DST	.34	.26	.32	.41	.13	.21	.24	.02	–.03	.23	.22	.39	.19	.19	.11	.20	.18	.12	–.18
RST	.37	.23	.30	.40	–.01	.12	.20	–.10	–.09	.19	.17	.41	.18	.10	.11	.14	.03	.06	–.17
NSI	.28	.21	.27	.36	.44	.35	.32	.31	.29	.33	.40	.38	.41	.38	.35	.35	.26	.35	.53
STI	.39	.28	.32	.41	.10	.18	.24	–.04	–.08	.22	.18	.42	.21	.20	.13	.19	.14	.08	–.19
SRI	.48	.33	.41	.52	.40	.40	.46	.18	.14	.44	.39	.55	.44	.46	.34	.41	.29	.32	.23
WIAT–III																			
Mean	99.1	100.1	100.9	99.4	103.6	98.5	99.5	96.9	100.9	99.9	99.7	99.4	101.2	100.7	101.0	101.4	100.8	99.9	107.3
SD	15.8	14.3	13.9	12.5	14.7	14.5	14.0	14.5	11.7	14.2	12.5	11.6	13.5	13.6	13.8	13.2	13.1	14.7	17.7
n	66	55	63	66	55	63	62	31	31	61	66	66	61	61	61	66	62	62	31

Ages 6–9	WIAT–III Composites								WISC–V		
WISC–V Subtest/ Composite Score	**Oral Language**	**Total Reading**	**Basic Reading**	**Reading Comprehension and Fluency**	**Written Expression**	**Mathematics**	**Math Fluency**	**Total Achievement**	**Mean**	***SD***	***n***
NSL	.24	.18	.24	.11	.18	.27	.28	.19	101.4	15.4	64
NSQ	.47	.32	.30	.47	.41	.57	.53	.43	100.5	12.8	66
IST	.46	.21	.21	.25	.15	.34	.12	.22	98.6	15.1	66
DST	.40	.21	.21	.19	.17	.35	.11	.26	98.5	14.9	66
RST	.42	.18	.18	.23	.06	.31	.03	.21	98.8	14.5	66
NSI	.35	.28	.33	.27	.33	.43	.45	.31	101.1	14.3	64
STI	.44	.21	.21	.23	.13	.33	.07	.23	98.3	14.7	66
SRI	.56	.38	.45	.36	.36	.51	.37	.41	100.1	13.1	64
WIAT–III											
Mean	99.0	101.1	99.8	102.0	99.5	99.5	102.2	100.8			
SD	14.2	12.7	14.4	13.1	14.0	11.9	13.5	12.0			
n	66	59	61	43	65	66	61	60			

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, AWF = Alphabet Writing Fluency, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

Table H.4 Correlations Between WISC–V Complementary Scores and the WIAT–III, by Age Group *(continued)*

Ages 10–16	WIAT–III Subtests																
WISC–V Subtest/ Composite Score	**LC**	**RC**	**MPS**	**SC**	**WR**	**EC**	**EC-GM[a]**	**PD**	**NO**	**OE**	**ORF**	**ORA[a]**	**ORR[a]**	**SP**	**MFA**	**MFS**	**MFM**
NSL	.06	.10	.06	.14	.19	.08	.03	.28	.22	.17	.34	.13	.33	.26	.33	.27	.39
NSQ	.03	.14	.08	.08	.22	.06	.02	.21	.30	.18	.32	.13	.28	.21	.35	.29	.32
IST	.39	.29	.38	.29	.24	.13	.14	.26	.32	.42	.26	.05	.23	.29	.07	.14	.14
DST	.31	.33	.39	.31	.31	.18	.17	.29	.33	.39	.23	.09	.20	.34	.16	.20	.18
RST	.28	.28	.32	.27	.21	.26	.23	.23	.38	.37	.18	.04	.15	.29	.20	.26	.24
NSI	.05	.14	.08	.13	.24	.05	.02	.27	.28	.21	.37	.14	.35	.26	.38	.31	.39
STI	.37	.35	.40	.33	.29	.21	.21	.30	.39	.45	.25	.09	.21	.37	.16	.21	.20
SRI	.25	.30	.30	.29	.33	.15	.13	.35	.43	.42	.41	.15	.37	.39	.35	.33	.38
WIAT–III																	
Mean	104.8	102.8	101.3	100.6	102.4	101.2	101.7	102.5	101.2	101.3	104.1	99.8	103.5	100.4	100.0	99.5	99.2
SD	13.1	12.1	12.0	12.7	9.8	16.2	16.3	12.3	12.0	12.7	11.0	12.9	9.5	13.1	13.4	12.9	13.9
n	145	144	145	145	143	145	145	143	145	144	145	145	145	145	145	145	145

Ages 10–16	WIAT–III Composites								WISC–V		
WISC–V Subtest/ Composite Score	**Oral Language**	**Total Reading**	**Basic Reading**	**Reading Comprehension and Fluency**	**Written Expression**	**Mathematics**	**Math Fluency**	**Total Achievement**	**Mean**	***SD***	***n***
NSL	.12	.31	.26	.28	.19	.16	.37	.25	100.8	13.9	145
NSQ	.11	.29	.23	.29	.15	.22	.35	.24	100.5	14.6	145
IST	.46	.37	.27	.35	.31	.39	.13	.48	97.5	12.8	145
DST	.39	.40	.32	.36	.37	.41	.20	.49	97.8	13.8	145
RST	.36	.30	.23	.29	.35	.40	.26	.43	98.9	14.4	145
NSI	.13	.34	.28	.33	.18	.22	.40	.27	100.6	14.6	145
STI	.45	.41	.31	.38	.39	.45	.21	.53	97.5	13.3	145
SRI	.36	.47	.37	.45	.35	.42	.39	.49	98.7	13.9	145
WIAT–III											
Mean	103.5	102.5	102.3	103.8	100.7	101.3	99.7	102.6			
SD	13.6	11.4	10.9	11.4	13.5	11.6	13.4	11.6			
n	144	142	143	144	145	145	145	141			

Note. WIAT–III subtest abbreviations are: LC = Listening Comprehension, ERS = Early Reading Skills, RC = Reading Comprehension, MPS = Math Problem Solving, AWF = Alphabet Writing Fluency, SC = Sentence Composition, WR = Word Reading, EC = Essay Composition, EC-GM = Essay Composition: Grammar and Mechanics, PD = Pseudoword Decoding, NO = Numerical Operations, OE = Oral Expression, ORF = Oral Reading Fluency, ORA = Oral Reading Accuracy, ORR = Oral Reading Rate, SP = Spelling, MFA = Math Fluency–Addition, MFS = Math Fluency–Subtraction, MFM = Math Fluency–Multiplication. All correlations were corrected for the variability of the WISC–V normative sample (Guilford & Fruchter, 1978).

[a] Supplemental scores.

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