

STANDARDIZATION DATA

Mean KABC-II scores for five ethnic groups are reported in the tables that follow. After the variables of sex and parental education are accounted for, **the difference between scores for these children and the national average is relatively small.**

Table 8.7: Scale, subtest, and global scale means and standard deviations for the norm sample, by ethnic group, ages 3–6, adjusted for sex and mother's education

Seq/Gsm	Ethnicity																		% of variance ^e		
	African American			American Indian			Asian American			Hispanic			White								
	N	Unadjusted Mean	Adj Mean	N	Unadjusted Mean	Adj Mean	N	Unadjusted Mean	Adj Mean	N	Unadjusted Mean	Adj Mean	N	Unadjusted Mean	Adj Mean						
114	100.5	13.5	101.4	16	99.6	21.4	99.4	9	102.3	11.3	98.4	124	94.3	15.3	96.7	384	101.9	14.3	101.0	1.3%*	
Number Recall	150	10.8	2.9	10.9	17	10.2	3.2	10.1	13	10.4	2.4	10.0	162	9.0	2.8	9.3	505	10.3	2.7	10.1	3.0%***
Word Order	150	9.4	2.7	9.7	17	9.8	4.2	9.7	13	9.8	2.5	9.2	162	8.7	2.9	9.2	505	10.3	2.6	10.1	1.3%*
Hand Move	114	9.4	2.6	9.5	16	9.8	2.9	9.7	9	10.6	4.1	10.0	124	9.7	2.7	10.1	384	10.4	2.7	10.3	1.0%
Sim/Gv	114	95.2	14.0	96.4	16	99.9	11.5	99.5	9	112.0	20.3	106.6	124	96.8	14.6	100.1	384	102.0	14.8	100.7	1.4%*
Cncpt Think	150	9.3	2.9	9.5	17	10.4	3.5	10.3	13	10.5	3.8	9.9	162	9.0	2.8	9.5	505	10.3	2.9	10.1	0.8%
Face Recog	150	9.7	3.2	9.8	17	10.2	2.8	10.2	13	11.0	4.0	10.7	162	10.0	2.9	10.3	505	10.0	2.9	9.9	0.3%
Pattern Reas	70	9.5	2.9	9.5	13	9.8	2.9	9.7	4	12.8	3.6	11.7	78	9.1	2.7	9.6	235	10.2	3.0	10.1	1.1%
Rover	37	10.0	3.2	10.0	7	9.4	2.2	9.2	-	-	-	-	37	10.2	2.4	10.8	119	10.3	3.2	10.1	1.3%
Triangles	150	9.0	2.4	9.2	17	10.6	2.7	10.5	13	10.8	3.9	10.3	162	9.8	3.2	10.3	505	10.2	2.9	10.0	1.4%*
Block Counting	70	9.2	3.1	9.3	13	10.3	3.1	10.3	4	13.3	3.9	12.6	78	9.3	3.0	9.6	235	10.6	2.8	10.4	3.0%*
Gestalt Closure	148	9.5	3.0	9.7	17	9.5	2.6	9.4	13	9.2	2.9	8.8	161	9.3	3.2	9.7	504	10.2	2.8	10.0	0.5%
Story Compl	37	9.5	2.3	9.5	7	11.7	3.6	11.5	-	-	-	-	37	9.5	2.3	10.0	119	10.4	2.9	10.2	1.9%
Lrn/Glr	114	98.2	15.6	99.3	16	96.6	14.1	96.2	9	105.3	13.3	100.8	124	96.0	14.9	98.9	384	100.8	14.2	99.7	0.2%
Atlantis	150	9.4	3.3	9.7	17	9.6	2.9	9.5	13	10.0	3.2	9.4	162	9.1	3.2	9.7	505	10.3	3.1	10.1	0.4%
Rebus	114	9.9	3.2	10.1	16	9.2	3.4	9.1	9	11.0	2.5	10.2	124	9.4	3.1	9.9	384	9.9	3.1	9.7	0.3%
Delayed Recall	64	101.9	16.1	102.2	12	99.0	13.9	98.4	4	109.3	13.8	105.6	76	99.1	16.7	100.5	212	101.0	13.1	100.5	0.4%
Knowl/Gc	114	94.6	13.0	95.9	16	101.4	15.8	100.9	9	101.3	14.7	95.9	124	90.2	15.0	93.7	384	104.2	14.1	102.8	6.0%***
Exp Vocab	150	9.0	2.2	9.4	17	10.5	2.7	10.4	13	10.6	3.3	9.8	162	7.7	3.0	8.5	505	10.6	2.8	10.3	5.2%***
Riddles	150	8.8	2.8	9.1	17	9.8	3.2	9.6	13	9.6	2.5	8.9	162	8.3	2.7	8.9	505	10.7	2.9	10.4	4.8%***
Verbal Knowl	150	9.0	2.4	9.2	17	10.9	2.5	10.8	13	10.0	2.1	9.4	162	8.4	3.0	9.0	505	10.6	2.8	10.4	4.3%***
MPI	150	97.1	13.4	98.7	17	100.1	16.1	99.5	13	104.5	16.2	100.3	162	94.7	14.8	98.2	505	102.4	14.9	100.9	0.5%
FCI	150	96.2	13.3	98.0	17	100.4	15.1	99.7	13	104.3	16.3	99.8	162	92.7	14.5	96.6	505	103.2	14.6	101.6	1.7%***
NVI	150	95.3	12.8	96.7	17	104.6	16.3	104.0	13	107.9	16.2	104.3	162	96.6	13.8	99.7	505	102.1	15.4	100.8	1.2%*

Note: Due to small sample size, participants of Other ethnicity (includes Alaska Natives, Pacific Islanders, and all other groups not classified as African American, American Indian, Asian, Hispanic, or White) are not reported here.
percentage of variance accounted for by ethnicity, controlling for sex and mother's education.
* $p < .05$ ** $p < .01$ *** $p < .001$

Table 8.8: Scale, subtest, and global scale means and standard deviations for the norm sample, by ethnic group, ages 7–18, adjusted for sex and mother's education

Seq/Gsm	Ethnicity												% of variance ^a								
	African American			American Indian			Asian American			Hispanic				White							
	N	Unadjusted Mean	SD	Adj Mean	N	Unadjusted Mean	SD	Adj Mean	N	Unadjusted Mean	SD	Adj Mean		N	Unadjusted Mean	SD	Adj Mean				
Number Recall	315	99.5	16.2	99.8	51	97.7	14.0	96.9	62	102.9	14.2	102.6	383	93.2	15.6	95.1	1356	101.9	14.3	101.3	2.3%***
Word Order	315	10.0	3.0	10.0	51	9.6	2.6	9.5	62	10.8	2.8	10.7	383	9.2	3.2	9.5	1356	10.3	2.7	10.2	1.1%***
Hand Move	315	9.8	3.2	9.8	51	9.5	2.8	9.4	62	10.1	2.7	10.1	383	8.5	2.8	8.8	1356	10.3	2.7	10.2	2.8%***
Sim/Gv	315	9.4	3.0	9.5	51	9.3	2.7	9.2	62	10.5	3.4	10.4	383	9.3	2.7	9.6	1356	10.3	2.9	10.2	1.3%***
Block Counting	315	92.7	13.6	92.9	51	101.0	13.7	100.1	62	104.8	17.9	105.0	383	97.0	13.6	98.7	1356	102.3	14.9	101.7	4.4%***
Rover	315	9.0	2.8	9.0	51	10.0	2.5	9.9	62	10.3	3.0	10.3	383	9.1	3.0	9.4	1356	10.3	3.0	10.2	2.4%**
Triangles	315	9.0	3.0	9.0	51	10.1	2.8	10.0	62	10.8	3.6	10.9	383	9.5	2.9	9.8	1356	10.4	2.9	10.3	2.5%***
Gestalt Closure	217	8.2	2.7	8.2	51	9.9	2.6	9.7	62	10.6	3.4	10.6	383	9.6	2.6	10.0	1356	10.3	2.9	10.2	5.6%**
Lrn/Gfr	315	97.9	13.8	98.3	51	97.5	12.3	96.7	62	103.2	18.3	102.8	383	94.9	15.2	97.0	1356	102.2	15.0	101.6	1.6%***
Atlantis	315	9.6	2.9	9.7	51	9.3	3.0	9.2	62	10.4	3.5	10.4	383	8.9	3.2	9.3	1356	10.3	3.1	10.2	1.4%***
Rebus	315	9.6	2.8	9.7	51	9.8	2.6	9.7	62	10.6	3.5	10.5	383	9.2	3.1	9.6	1356	10.4	3.0	10.3	1.1%***
Delayed Recall	305	98.2	14.7	98.5	49	99.9	13.0	99.2	62	102.8	17.6	102.5	366	95.0	15.5	96.8	1315	101.3	14.5	100.7	1.0%***
Plan/Gf	315	94.3	13.8	94.7	51	97.7	12.6	96.7	62	102.1	16.2	101.8	383	96.3	14.8	98.8	1356	102.3	14.9	101.6	2.7%***
Pattern Reas	315	9.1	2.8	9.1	51	9.5	2.8	9.4	62	10.8	3.2	10.8	383	9.3	2.9	9.8	1356	10.5	3.0	10.4	2.4%***
Story Compl	315	9.1	3.0	9.2	51	9.9	2.3	9.7	62	10.0	3.1	9.9	383	9.5	3.1	9.9	1356	10.4	3.0	10.3	1.6%***
Knowl/Gc	315	93.5	14.4	93.9	51	95.9	9.8	94.4	62	100.6	19.3	100.4	383	91.6	14.4	94.9	1356	104.1	13.7	103.1	6.9%***
Exp Vocab	315	8.8	3.0	8.9	51	9.2	2.2	8.9	62	9.7	3.8	9.6	383	8.4	3.1	9.0	1356	10.9	2.8	10.7	6.9%***
Riddles	315	8.7	3.0	8.8	51	9.3	2.0	9.0	62	10.5	3.9	10.5	383	8.5	2.9	9.1	1356	10.7	2.8	10.5	5.7%***
Verbal Knowl	315	8.3	2.5	8.4	51	9.1	2.0	8.9	62	9.5	3.7	9.4	383	7.5	2.8	8.1	1356	10.8	2.6	10.7	13.6%***
MPI	315	94.8	13.6	95.2	51	97.6	12.3	96.5	62	104.9	18.6	104.6	383	93.8	14.5	96.5	1356	102.7	14.5	101.9	3.7%***
FCI	315	94.0	13.5	94.5	51	96.9	11.6	95.6	62	104.1	19.0	103.9	383	92.8	14.3	95.8	1356	103.3	14.3	102.4	5.0%***
NVI	315	92.8	13.3	93.1	51	98.1	10.9	97.0	62	103.6	17.4	103.4	383	95.8	13.9	98.3	1356	102.8	14.9	102.0	4.5%***

Note: Due to small sample size, participants of Other ethnicity (includes Alaska Natives, Pacific Islanders, and all other groups not classified as African American, American Indian, Asian, Hispanic, or White) are not reported here.
^aPercentage of variance accounted for by ethnicity, controlling for sex and mother's education.
 * $p < .05$ ** $p < .01$ *** $p < .001$

Overall, **these analyses indicate that KABC-II scores are influenced relatively little by children's ethnic backgrounds.** Considering the three largest groups (African American, Hispanic, and White), mean adjusted scores on the Mental Processing Index (MPI; which excludes verbal measures) vary only by 3 points at the preschool level and 7 points at the school-age level, and on the Fluid-Crystallized Index (FCI, which includes verbal measures), the ranges are 5 and 8 points at the two age levels, respectively. **These differences are considerably smaller than ethnic differences reported with other instruments such as Wechsler's scales®** (Kaufman, 1994a; Kaufman & Lichtenberger, 2002; Prifitera et al., 1998), the **Woodcock-Johnson®—Revised, and the Stanford-Binet IV®** (Wasserman & Becker, 2000). Among comprehensive cognitive batteries for children and adolescents, only the Cognitive Assessment System (CAS) reports differences between White children and African American children that are comparable to the differences found on the KABC-II (J.A. Naglieri, personal communication, June 11, 2003).

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