

# CASL<sup>®</sup>-2

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## Comprehensive Assessment of Spoken Language Second Edition

### Manual Supplement

This supplement provides updated tables for calculating age- and grade-based standard scores as well as test-age and grade equivalent scores for the CASL-2 Grammaticality Judgment (GJ) test only. Additionally, updated age ranges for 90% passing rates for GJ items are included. Follow the administration and scoring instructions described in Chapter 2 of the CASL-2 Manual, and use the tables in this supplement to convert the raw score to a standard score for Grammaticality Judgment. For all other CASL-2 tests, all CASL-2 index scores, and all other calculations (including the confidence intervals for GJ), use the tables provided in the CASL-2 Manual.

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Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated)

Ages 5–0 to 5–2									Ages 5–3 to 5–5								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	64–91	84	115	21	2	70	–	>99.9	160	65–91	84	115	23	2	70	–
>99.9	159	63	82	114	20	2	69	–	>99.9	159	64	82	114	22	2	69	–
>99.9	158	62	81	113	–	2	68	–	>99.9	158	63	81	113	21	2	68	–
>99.9	157	61	79	112	19	1	67	–	>99.9	157	62	79	112	20	1	67	–
>99.9	156	60	77	111	18	1	66	–	>99.9	156	61	77	111	19	1	66	–
>99.9	155	59	75	110	17	1	65	–	>99.9	155	60	75	110	18	1	65	–
>99.9	154	58	73	109	16	1	64	–	>99.9	154	59	73	109	17	1	64	–
>99.9	153	57	70	108	15	1	63	–	>99.9	153	58	70	108	–	1	63	–
>99.9	152	56	68	107	14	1	62	–	>99.9	152	57	68	107	16	1	62	–
>99.9	151	55	66	106	13	0.5	61	–	>99.9	151	56	66	106	15	0.5	61	–
>99.9	150	54	63	105	12	0.4	60	–	>99.9	150	–	63	105	14	0.4	60	–
99.9	149	53	61	104	11	0.3	59	–	99.9	149	55	61	104	13	0.3	59	–
99.9	148	–	58	103	10	0.3	58	–	99.9	148	54	58	103	12	0.3	58	–
99.9	147	52	55	102	9	0.2	57	–	99.9	147	53	55	102	11	0.2	57	–
99.9	146	51	53	101	8	0.2	56	–	99.9	146	52	53	101	10	0.2	56	–
99.9	145	50	50	100	–	0.1	55	–	99.9	145	51	50	100	9	0.1	55	–
99.8	144	49	47	99	7	0.1	54	–	99.8	144	50	47	99	–	0.1	54	–
99.8	143	48	45	98	–	0.1	53	–	99.8	143	49	45	98	–	0.1	53	–
99.7	142	47	42	97	6	0.1	52	–	99.7	142	48	42	97	8	0.1	52	–
99.7	141	46	39	96	–	0.1	51	–	99.7	141	47	39	96	–	0.1	51	–
99.6	140	45	37	95	–	<0.1	50	–	99.6	140	46	37	95	7	<0.1	50	–
99.5	139	44	34	94	5	<0.1	49	–	99.5	139	45	34	94	–	<0.1	49	–
99	138	43	32	93	–	<0.1	48	–	99	138	44	32	93	6	<0.1	48	–
99	137	42	30	92	–	<0.1	47	–	99	137	43	30	92	–	<0.1	47	–
99	136	41	27	91	4	<0.1	46	–	99	136	–	27	91	5	<0.1	46	–
99	135	40	25	90	–	<0.1	45	–	99	135	42	25	90	–	<0.1	45	–
99	134	39	23	89	–	<0.1	44	–	99	134	41	23	89	–	<0.1	44	–
99	133	38	21	88	3	<0.1	43	–	99	133	40	21	88	4	<0.1	43	–
98	132	37	19	87	–	<0.1	42	–	98	132	39	19	87	–	<0.1	42	–
98	131	–	18	86	2	<0.1	41	–	98	131	38	18	86	3	<0.1	41	–
98	130	36	16	85	–	<0.1	40	–	98	130	37	16	85	–	<0.1	40	–
97	129	35	14	84	–				97	129	36	14	84	2			
97	128	34	13	83	1				97	128	35	13	83	–			
96	127	33	12	82	–				96	127	34	12	82	–			
96	126	32	10	81	–				96	126	33	10	81	1			
95	125	31	9	80	0				95	125	32	9	80	–			
95	124	30	8	79	–				95	124	31	8	79	0			
94	123	29	7	78	–				94	123	30	7	78	–			
93	122	28	6	77	–				93	122	–	6	77	–			
92	121	27	5	76	–				92	121	29	5	76	–			
91	120	26	5	75	–				91	120	28	5	75	–			
90	119	25	4	74	–				90	119	27	4	74	–			
88	118	24	4	73	–				88	118	26	4	73	–			
87	117	23	3	72	–				87	117	25	3	72	–			
86	116	22	3	71	–				86	116	24	3	71	–			

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 5–6 to 5–8									Ages 5–9 to 5–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	66–91	84	115	25	2	70	–	>99.9	160	70–91	84	115	29	2	70	1
>99.9	159	–	82	114	24	2	69	–	>99.9	159	69	82	114	28	2	69	–
>99.9	158	65	81	113	23	2	68	–	>99.9	158	68	81	113	27	2	68	0
>99.9	157	64	79	112	–	1	67	–	>99.9	157	67	79	112	26	1	67	–
>99.9	156	63	77	111	22	1	66	–	>99.9	156	66	77	111	25	1	66	–
>99.9	155	62	75	110	21	1	65	–	>99.9	155	65	75	110	–	1	65	–
>99.9	154	61	73	109	20	1	64	–	>99.9	154	64	73	109	24	1	64	–
>99.9	153	60	70	108	19	1	63	–	>99.9	153	63	70	108	23	1	63	–
>99.9	152	59	68	107	18	1	62	–	>99.9	152	62	68	107	22	1	62	–
>99.9	151	58	66	106	17	0.5	61	–	>99.9	151	61	66	106	21	0.5	61	–
>99.9	150	57	63	105	16	0.4	60	–	>99.9	150	–	63	105	20	0.4	60	–
99.9	149	56	61	104	15	0.3	59	–	99.9	149	60	61	104	19	0.3	59	–
99.9	148	55	58	103	14	0.3	58	–	99.9	148	59	58	103	18	0.3	58	–
99.9	147	–	55	102	13	0.2	57	–	99.9	147	58	55	102	17	0.2	57	–
99.9	146	54	53	101	–	0.2	56	–	99.9	146	57	53	101	16	0.2	56	–
99.9	145	53	50	100	12	0.1	55	–	99.9	145	56	50	100	–	0.1	55	–
99.8	144	52	47	99	11	0.1	54	–	99.8	144	55	47	99	15	0.1	54	–
99.8	143	51	45	98	–	0.1	53	–	99.8	143	54	45	98	–	0.1	53	–
99.7	142	50	42	97	10	0.1	52	–	99.7	142	53	42	97	14	0.1	52	–
99.7	141	49	39	96	–	0.1	51	–	99.7	141	52	39	96	–	0.1	51	–
99.6	140	48	37	95	9	<0.1	50	–	99.6	140	–	37	95	13	<0.1	50	–
99.5	139	47	34	94	–	<0.1	49	–	99.5	139	51	34	94	–	<0.1	49	–
99	138	46	32	93	–	<0.1	48	–	99	138	50	32	93	12	<0.1	48	–
99	137	45	30	92	8	<0.1	47	–	99	137	49	30	92	–	<0.1	47	–
99	136	–	27	91	–	<0.1	46	–	99	136	48	27	91	11	<0.1	46	–
99	135	44	25	90	7	<0.1	45	–	99	135	47	25	90	–	<0.1	45	–
99	134	43	23	89	–	<0.1	44	–	99	134	46	23	89	10	<0.1	44	–
99	133	42	21	88	6	<0.1	43	–	99	133	45	21	88	–	<0.1	43	–
98	132	41	19	87	–	<0.1	42	–	98	132	44	19	87	9	<0.1	42	–
98	131	40	18	86	5	<0.1	41	–	98	131	43	18	86	–	<0.1	41	–
98	130	39	16	85	–	<0.1	40	–	98	130	–	16	85	8	<0.1	40	–
97	129	38	14	84	4				97	129	42	14	84	–			
97	128	37	13	83	–				97	128	41	13	83	–			
96	127	36	12	82	3				96	127	40	12	82	7			
96	126	35	10	81	–				96	126	39	10	81	–			
95	125	34	9	80	2				95	125	38	9	80	6			
95	124	–	8	79	–				95	124	37	8	79	–			
94	123	33	7	78	1				94	123	36	7	78	5			
93	122	32	6	77	–				93	122	35	6	77	–			
92	121	31	5	76	0				92	121	34	5	76	4			
91	120	30	5	75	–				91	120	–	5	75	–			
90	119	29	4	74	–				90	119	33	4	74	3			
88	118	28	4	73	–				88	118	32	4	73	–			
87	117	27	3	72	–				87	117	31	3	72	2			
86	116	26	3	71	–				86	116	30	3	71	–			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 6–0 to 6–2									Ages 6–3 to 6–5								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	71–91	84	115	31	2	70	1	>99.9	160	72–91	84	115	–	2	70	1
>99.9	159	70	82	114	30	2	69	–	>99.9	159	71	82	114	32	2	69	–
>99.9	158	69	81	113	29	2	68	0	>99.9	158	70	81	113	31	2	68	0
>99.9	157	68	79	112	28	1	67	–	>99.9	157	69	79	112	30	1	67	–
>99.9	156	67	77	111	27	1	66	–	>99.9	156	68	77	111	29	1	66	–
>99.9	155	66	75	110	26	1	65	–	>99.9	155	67	75	110	28	1	65	–
>99.9	154	65	73	109	–	1	64	–	>99.9	154	–	73	109	27	1	64	–
>99.9	153	64	70	108	25	1	63	–	>99.9	153	66	70	108	26	1	63	–
>99.9	152	–	68	107	24	1	62	–	>99.9	152	65	68	107	–	1	62	–
>99.9	151	63	66	106	23	0.5	61	–	>99.9	151	64	66	106	25	0.5	61	–
>99.9	150	62	63	105	22	0.4	60	–	>99.9	150	63	63	105	24	0.4	60	–
99.9	149	61	61	104	21	0.3	59	–	99.9	149	62	61	104	23	0.3	59	–
99.9	148	60	58	103	20	0.3	58	–	99.9	148	61	58	103	22	0.3	58	–
99.9	147	59	55	102	19	0.2	57	–	99.9	147	60	55	102	21	0.2	57	–
99.9	146	58	53	101	18	0.2	56	–	99.9	146	–	53	101	20	0.2	56	–
99.9	145	57	50	100	–	0.1	55	–	99.9	145	59	50	100	–	0.1	55	–
99.8	144	–	47	99	17	0.1	54	–	99.8	144	58	47	99	19	0.1	54	–
99.8	143	56	45	98	–	0.1	53	–	99.8	143	57	45	98	18	0.1	53	–
99.7	142	55	42	97	16	0.1	52	–	99.7	142	56	42	97	–	0.1	52	–
99.7	141	54	39	96	–	0.1	51	–	99.7	141	55	39	96	17	0.1	51	–
99.6	140	53	37	95	15	<0.1	50	–	99.6	140	54	37	95	–	<0.1	50	–
99.5	139	52	34	94	14	<0.1	49	–	99.5	139	53	34	94	16	<0.1	49	–
99	138	51	32	93	–	<0.1	48	–	99	138	–	32	93	15	<0.1	48	–
99	137	50	30	92	13	<0.1	47	–	99	137	52	30	92	–	<0.1	47	–
99	136	49	27	91	–	<0.1	46	–	99	136	51	27	91	14	<0.1	46	–
99	135	–	25	90	12	<0.1	45	–	99	135	50	25	90	–	<0.1	45	–
99	134	48	23	89	–	<0.1	44	–	99	134	49	23	89	13	<0.1	44	–
99	133	47	21	88	11	<0.1	43	–	99	133	48	21	88	12	<0.1	43	–
98	132	46	19	87	–	<0.1	42	–	98	132	47	19	87	–	<0.1	42	–
98	131	45	18	86	10	<0.1	41	–	98	131	–	18	86	11	<0.1	41	–
98	130	44	16	85	–	<0.1	40	–	98	130	46	16	85	10	<0.1	40	–
97	129	43	14	84	9				97	129	45	14	84	–			
97	128	42	13	83	8				97	128	44	13	83	9			
96	127	41	12	82	–				96	127	43	12	82	–			
96	126	–	10	81	7				96	126	42	10	81	8			
95	125	40	9	80	–				95	125	41	9	80	7			
95	124	39	8	79	6				95	124	40	8	79	–			
94	123	38	7	78	–				94	123	–	7	78	6			
93	122	37	6	77	5				93	122	39	6	77	–			
92	121	36	5	76	–				92	121	38	5	76	5			
91	120	35	5	75	4				91	120	37	5	75	4			
90	119	34	4	74	3				90	119	36	4	74	–			
88	118	–	4	73	–				88	118	35	4	73	3			
87	117	33	3	72	2				87	117	34	3	72	–			
86	116	32	3	71	–				86	116	33	3	71	2			

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 6–6 to 6–8									Ages 6–9 to 6–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	73–91	84	115	34	2	70	1	>99.9	160	74–91	84	115	36	2	70	1
>99.9	159	72	82	114	33	2	69	–	>99.9	159	73	82	114	35	2	69	–
>99.9	158	71	81	113	–	2	68	0	>99.9	158	72	81	113	34	2	68	0
>99.9	157	70	79	112	32	1	67	–	>99.9	157	71	79	112	–	1	67	–
>99.9	156	69	77	111	31	1	66	–	>99.9	156	–	77	111	33	1	66	–
>99.9	155	–	75	110	30	1	65	–	>99.9	155	70	75	110	32	1	65	–
>99.9	154	68	73	109	29	1	64	–	>99.9	154	69	73	109	31	1	64	–
>99.9	153	67	70	108	28	1	63	–	>99.9	153	68	70	108	30	1	63	–
>99.9	152	66	68	107	27	1	62	–	>99.9	152	67	68	107	29	1	62	–
>99.9	151	65	66	106	–	0.5	61	–	>99.9	151	66	66	106	28	0.5	61	–
>99.9	150	64	63	105	26	0.4	60	–	>99.9	150	65	63	105	–	0.4	60	–
99.9	149	63	61	104	25	0.3	59	–	99.9	149	–	61	104	27	0.3	59	–
99.9	148	–	58	103	24	0.3	58	–	99.9	148	64	58	103	26	0.3	58	–
99.9	147	62	55	102	23	0.2	57	–	99.9	147	63	55	102	25	0.2	57	–
99.9	146	61	53	101	22	0.2	56	–	99.9	146	62	53	101	24	0.2	56	–
99.9	145	60	50	100	–	0.1	55	–	99.9	145	61	50	100	23	0.1	55	–
99.8	144	59	47	99	21	0.1	54	–	99.8	144	60	47	99	–	0.1	54	–
99.8	143	58	45	98	20	0.1	53	–	99.8	143	–	45	98	22	0.1	53	–
99.7	142	57	42	97	–	0.1	52	–	99.7	142	59	42	97	21	0.1	52	–
99.7	141	–	39	96	19	0.1	51	–	99.7	141	58	39	96	–	0.1	51	–
99.6	140	56	37	95	18	<0.1	50	–	99.6	140	57	37	95	20	<0.1	50	–
99.5	139	55	34	94	–	<0.1	49	–	99.5	139	56	34	94	19	<0.1	49	–
99	138	54	32	93	17	<0.1	48	–	99	138	55	32	93	18	<0.1	48	–
99	137	53	30	92	16	<0.1	47	–	99	137	–	30	92	–	<0.1	47	–
99	136	52	27	91	15	<0.1	46	–	99	136	54	27	91	17	<0.1	46	–
99	135	51	25	90	–	<0.1	45	–	99	135	53	25	90	16	<0.1	45	–
99	134	–	23	89	14	<0.1	44	–	99	134	52	23	89	15	<0.1	44	–
99	133	50	21	88	13	<0.1	43	–	99	133	51	21	88	–	<0.1	43	–
98	132	49	19	87	–	<0.1	42	–	98	132	50	19	87	14	<0.1	42	–
98	131	48	18	86	12	<0.1	41	–	98	131	–	18	86	13	<0.1	41	–
98	130	47	16	85	11	<0.1	40	–	98	130	49	16	85	12	<0.1	40	–
97	129	46	14	84	–				97	129	48	14	84	–			
97	128	45	13	83	10				97	128	47	13	83	11			
96	127	–	12	82	9				96	127	46	12	82	10			
96	126	44	10	81	–				96	126	45	10	81	–			
95	125	43	9	80	8				95	125	44	9	80	9			
95	124	42	8	79	7				95	124	–	8	79	8			
94	123	41	7	78	–				94	123	43	7	78	7			
93	122	40	6	77	6				93	122	42	6	77	–			
92	121	39	5	76	5				92	121	41	5	76	6			
91	120	–	5	75	–				91	120	40	5	75	5			
90	119	38	4	74	4				90	119	39	4	74	4			
88	118	37	4	73	3				88	118	–	4	73	–			
87	117	36	3	72	–				87	117	38	3	72	3			
86	116	35	3	71	2				86	116	37	3	71	2			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 7-0 to 7-2									Ages 7-3 to 7-5								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	75-91	84	115	38	2	70	-	>99.9	160	76-91	84	115	-	2	70	2
>99.9	159	74	82	114	37	2	69	1	>99.9	159	75	82	114	39	2	69	1
>99.9	158	73	81	113	36	2	68	0	>99.9	158	74	81	113	38	2	68	0
>99.9	157	-	79	112	35	1	67	-	>99.9	157	-	79	112	37	1	67	-
>99.9	156	72	77	111	34	1	66	-	>99.9	156	73	77	111	36	1	66	-
>99.9	155	71	75	110	-	1	65	-	>99.9	155	72	75	110	35	1	65	-
>99.9	154	70	73	109	33	1	64	-	>99.9	154	71	73	109	-	1	64	-
>99.9	153	69	70	108	32	1	63	-	>99.9	153	70	70	108	34	1	63	-
>99.9	152	68	68	107	31	1	62	-	>99.9	152	-	68	107	33	1	62	-
>99.9	151	-	66	106	30	0.5	61	-	>99.9	151	69	66	106	32	0.5	61	-
>99.9	150	67	63	105	-	0.4	60	-	>99.9	150	68	63	105	31	0.4	60	-
99.9	149	66	61	104	29	0.3	59	-	99.9	149	67	61	104	-	0.3	59	-
99.9	148	65	58	103	28	0.3	58	-	99.9	148	66	58	103	30	0.3	58	-
99.9	147	64	55	102	27	0.2	57	-	99.9	147	-	55	102	29	0.2	57	-
99.9	146	63	53	101	26	0.2	56	-	99.9	146	65	53	101	28	0.2	56	-
99.9	145	-	50	100	25	0.1	55	-	99.9	145	64	50	100	27	0.1	55	-
99.8	144	62	47	99	-	0.1	54	-	99.8	144	63	47	99	26	0.1	54	-
99.8	143	61	45	98	24	0.1	53	-	99.8	143	62	45	98	-	0.1	53	-
99.7	142	60	42	97	23	0.1	52	-	99.7	142	61	42	97	25	0.1	52	-
99.7	141	59	39	96	22	0.1	51	-	99.7	141	-	39	96	24	0.1	51	-
99.6	140	58	37	95	21	<0.1	50	-	99.6	140	60	37	95	23	<0.1	50	-
99.5	139	-	34	94	-	<0.1	49	-	99.5	139	59	34	94	22	<0.1	49	-
99	138	57	32	93	20	<0.1	48	-	99	138	58	32	93	21	<0.1	48	-
99	137	56	30	92	19	<0.1	47	-	99	137	57	30	92	-	<0.1	47	-
99	136	55	27	91	18	<0.1	46	-	99	136	-	27	91	20	<0.1	46	-
99	135	54	25	90	17	<0.1	45	-	99	135	56	25	90	19	<0.1	45	-
99	134	-	23	89	-	<0.1	44	-	99	134	55	23	89	18	<0.1	44	-
99	133	53	21	88	16	<0.1	43	-	99	133	54	21	88	17	<0.1	43	-
98	132	52	19	87	15	<0.1	42	-	98	132	53	19	87	16	<0.1	42	-
98	131	51	18	86	14	<0.1	41	-	98	131	-	18	86	-	<0.1	41	-
98	130	50	16	85	13	<0.1	40	-	98	130	52	16	85	15	<0.1	40	-
97	129	49	14	84	-				97	129	51	14	84	14			
97	128	-	13	83	12				97	128	50	13	83	13			
96	127	48	12	82	11				96	127	49	12	82	12			
96	126	47	10	81	10				96	126	48	10	81	11			
95	125	46	9	80	9				95	125	-	9	80	10			
95	124	45	8	79	-				95	124	47	8	79	-			
94	123	44	7	78	8				94	123	46	7	78	9			
93	122	-	6	77	7				93	122	45	6	77	8			
92	121	43	5	76	6				92	121	44	5	76	7			
91	120	42	5	75	5				91	120	-	5	75	6			
90	119	41	4	74	-				90	119	43	4	74	5			
88	118	40	4	73	4				88	118	42	4	73	-			
87	117	39	3	72	3				87	117	41	3	72	4			
86	116	-	3	71	2				86	116	40	3	71	3			



Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 7–6 to 7–8									Ages 7–9 to 7–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	77–91	84	115	41	2	70	–	>99.9	160	78–91	84	115	43	2	70	6
>99.9	159	76	82	114	40	2	69	3	>99.9	159	–	82	114	42	2	69	5
>99.9	158	–	81	113	–	2	68	2	>99.9	158	77	81	113	–	2	68	4
>99.9	157	75	79	112	39	1	67	1	>99.9	157	76	79	112	41	1	67	3
>99.9	156	74	77	111	38	1	66	0	>99.9	156	75	77	111	40	1	66	–
>99.9	155	73	75	110	37	1	65	–	>99.9	155	74	75	110	39	1	65	2
>99.9	154	72	73	109	–	1	64	–	>99.9	154	–	73	109	38	1	64	1
>99.9	153	–	70	108	36	1	63	–	>99.9	153	73	70	108	–	1	63	0
>99.9	152	71	68	107	35	1	62	–	>99.9	152	72	68	107	37	1	62	–
>99.9	151	70	66	106	34	0.5	61	–	>99.9	151	71	66	106	36	0.5	61	–
>99.9	150	69	63	105	33	0.4	60	–	>99.9	150	–	63	105	35	0.4	60	–
99.9	149	68	61	104	–	0.3	59	–	99.9	149	70	61	104	34	0.3	59	–
99.9	148	–	58	103	32	0.3	58	–	99.9	148	69	58	103	–	0.3	58	–
99.9	147	67	55	102	31	0.2	57	–	99.9	147	68	55	102	33	0.2	57	–
99.9	146	66	53	101	30	0.2	56	–	99.9	146	67	53	101	32	0.2	56	–
99.9	145	65	50	100	29	0.1	55	–	99.9	145	–	50	100	31	0.1	55	–
99.8	144	64	47	99	28	0.1	54	–	99.8	144	66	47	99	30	0.1	54	–
99.8	143	–	45	98	–	0.1	53	–	99.8	143	65	45	98	–	0.1	53	–
99.7	142	63	42	97	27	0.1	52	–	99.7	142	64	42	97	29	0.1	52	–
99.7	141	62	39	96	26	0.1	51	–	99.7	141	63	39	96	28	0.1	51	–
99.6	140	61	37	95	25	<0.1	50	–	99.6	140	–	37	95	27	<0.1	50	–
99.5	139	60	34	94	24	<0.1	49	–	99.5	139	62	34	94	26	<0.1	49	–
99	138	–	32	93	23	<0.1	48	–	99	138	61	32	93	25	<0.1	48	–
99	137	59	30	92	22	<0.1	47	–	99	137	60	30	92	–	<0.1	47	–
99	136	58	27	91	–	<0.1	46	–	99	136	–	27	91	24	<0.1	46	–
99	135	57	25	90	21	<0.1	45	–	99	135	59	25	90	23	<0.1	45	–
99	134	56	23	89	20	<0.1	44	–	99	134	58	23	89	22	<0.1	44	–
99	133	–	21	88	19	<0.1	43	–	99	133	57	21	88	21	<0.1	43	–
98	132	55	19	87	18	<0.1	42	–	98	132	56	19	87	20	<0.1	42	–
98	131	54	18	86	17	<0.1	41	–	98	131	–	18	86	19	<0.1	41	–
98	130	53	16	85	16	<0.1	40	–	98	130	55	16	85	–	<0.1	40	–
97	129	52	14	84	–				97	129	54	14	84	18			
97	128	–	13	83	15				97	128	53	13	83	17			
96	127	51	12	82	14				96	127	52	12	82	16			
96	126	50	10	81	13				96	126	–	10	81	15			
95	125	49	9	80	12				95	125	51	9	80	14			
95	124	48	8	79	11				95	124	50	8	79	–			
94	123	–	7	78	10				94	123	49	7	78	13			
93	122	47	6	77	–				93	122	–	6	77	12			
92	121	46	5	76	9				92	121	48	5	76	11			
91	120	45	5	75	8				91	120	47	5	75	10			
90	119	44	4	74	7				90	119	46	4	74	9			
88	118	–	4	73	6				88	118	45	4	73	8			
87	117	43	3	72	5				87	117	–	3	72	–			
86	116	42	3	71	4				86	116	44	3	71	7			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 8–0 to 8–5									Ages 8–6 to 8–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	80–91	84	115	45	2	70	8	>99.9	160	81–91	84	115	47	2	70	11
>99.9	159	79	82	114	44	2	69	–	>99.9	159	80	82	114	46	2	69	10
>99.9	158	78	81	113	43	2	68	7	>99.9	158	79	81	113	45	2	68	9
>99.9	157	77	79	112	–	1	67	6	>99.9	157	78	79	112	–	1	67	8
>99.9	156	76	77	111	42	1	66	5	>99.9	156	–	77	111	44	1	66	–
>99.9	155	–	75	110	41	1	65	4	>99.9	155	77	75	110	43	1	65	7
>99.9	154	75	73	109	40	1	64	3	>99.9	154	76	73	109	42	1	64	6
>99.9	153	74	70	108	–	1	63	–	>99.9	153	75	70	108	41	1	63	5
>99.9	152	73	68	107	39	1	62	2	>99.9	152	–	68	107	–	1	62	4
>99.9	151	–	66	106	38	0.5	61	1	>99.9	151	74	66	106	40	0.5	61	3
>99.9	150	72	63	105	37	0.4	60	0	>99.9	150	73	63	105	39	0.4	60	–
99.9	149	71	61	104	36	0.3	59	–	99.9	149	72	61	104	38	0.3	59	2
99.9	148	70	58	103	–	0.3	58	–	99.9	148	–	58	103	–	0.3	58	1
99.9	147	–	55	102	35	0.2	57	–	99.9	147	71	55	102	37	0.2	57	0
99.9	146	69	53	101	34	0.2	56	–	99.9	146	70	53	101	36	0.2	56	–
99.9	145	68	50	100	33	0.1	55	–	99.9	145	69	50	100	35	0.1	55	–
99.8	144	67	47	99	–	0.1	54	–	99.8	144	–	47	99	–	0.1	54	–
99.8	143	66	45	98	32	0.1	53	–	99.8	143	68	45	98	34	0.1	53	–
99.7	142	–	42	97	31	0.1	52	–	99.7	142	67	42	97	33	0.1	52	–
99.7	141	65	39	96	30	0.1	51	–	99.7	141	66	39	96	32	0.1	51	–
99.6	140	64	37	95	29	<0.1	50	–	99.6	140	–	37	95	31	<0.1	50	–
99.5	139	63	34	94	28	<0.1	49	–	99.5	139	65	34	94	–	<0.1	49	–
99	138	–	32	93	–	<0.1	48	–	99	138	64	32	93	30	<0.1	48	–
99	137	62	30	92	27	<0.1	47	–	99	137	63	30	92	29	<0.1	47	–
99	136	61	27	91	26	<0.1	46	–	99	136	–	27	91	28	<0.1	46	–
99	135	60	25	90	25	<0.1	45	–	99	135	62	25	90	27	<0.1	45	–
99	134	–	23	89	24	<0.1	44	–	99	134	61	23	89	26	<0.1	44	–
99	133	59	21	88	23	<0.1	43	–	99	133	60	21	88	–	<0.1	43	–
98	132	58	19	87	–	<0.1	42	–	98	132	–	19	87	25	<0.1	42	–
98	131	57	18	86	22	<0.1	41	–	98	131	59	18	86	24	<0.1	41	–
98	130	56	16	85	21	<0.1	40	–	98	130	58	16	85	23	<0.1	40	–
97	129	–	14	84	20				97	129	57	14	84	22			
97	128	55	13	83	19				97	128	–	13	83	–			
96	127	54	12	82	18				96	127	56	12	82	21			
96	126	53	10	81	–				96	126	55	10	81	20			
95	125	–	9	80	17				95	125	54	9	80	19			
95	124	52	8	79	16				95	124	–	8	79	18			
94	123	51	7	78	15				94	123	53	7	78	17			
93	122	50	6	77	14				93	122	52	6	77	–			
92	121	–	5	76	13				92	121	51	5	76	16			
91	120	49	5	75	–				91	120	–	5	75	15			
90	119	48	4	74	12				90	119	50	4	74	14			
88	118	47	4	73	11				88	118	49	4	73	13			
87	117	46	3	72	10				87	117	48	3	72	12			
86	116	–	3	71	9				86	116	–	3	71	–			

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 9–0 to 9–5									Ages 9–6 to 9–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	82–91	84	115	–	2	70	13	>99.9	160	83–91	84	115	–	2	70	16
>99.9	159	81	82	114	48	2	69	–	>99.9	159	–	82	114	50	2	69	15
>99.9	158	80	81	113	47	2	68	12	>99.9	158	82	81	113	49	2	68	–
>99.9	157	–	79	112	46	1	67	11	>99.9	157	81	79	112	48	1	67	14
>99.9	156	79	77	111	–	1	66	10	>99.9	156	80	77	111	–	1	66	13
>99.9	155	78	75	110	45	1	65	9	>99.9	155	–	75	110	47	1	65	12
>99.9	154	–	73	109	44	1	64	–	>99.9	154	79	73	109	46	1	64	11
>99.9	153	77	70	108	43	1	63	8	>99.9	153	78	70	108	–	1	63	–
>99.9	152	76	68	107	–	1	62	7	>99.9	152	77	68	107	45	1	62	10
>99.9	151	75	66	106	42	0.5	61	6	>99.9	151	–	66	106	44	0.5	61	9
>99.9	150	–	63	105	41	0.4	60	5	>99.9	150	76	63	105	43	0.4	60	8
99.9	149	74	61	104	–	0.3	59	–	99.9	149	75	61	104	–	0.3	59	7
99.9	148	73	58	103	40	0.3	58	4	99.9	148	–	58	103	42	0.3	58	–
99.9	147	72	55	102	39	0.2	57	3	99.9	147	74	55	102	41	0.2	57	6
99.9	146	–	53	101	38	0.2	56	2	99.9	146	73	53	101	40	0.2	56	5
99.9	145	71	50	100	–	0.1	55	1	99.9	145	72	50	100	–	0.1	55	4
99.8	144	70	47	99	37	0.1	54	–	99.8	144	–	47	99	39	0.1	54	3
99.8	143	69	45	98	36	0.1	53	0	99.8	143	71	45	98	38	0.1	53	–
99.7	142	–	42	97	35	0.1	52	–	99.7	142	70	42	97	37	0.1	52	2
99.7	141	68	39	96	34	0.1	51	–	99.7	141	69	39	96	–	0.1	51	1
99.6	140	67	37	95	–	<0.1	50	–	99.6	140	–	37	95	36	<0.1	50	0
99.5	139	66	34	94	33	<0.1	49	–	99.5	139	68	34	94	35	<0.1	49	–
99	138	–	32	93	32	<0.1	48	–	99	138	67	32	93	34	<0.1	48	–
99	137	65	30	92	31	<0.1	47	–	99	137	–	30	92	33	<0.1	47	–
99	136	64	27	91	30	<0.1	46	–	99	136	66	27	91	–	<0.1	46	–
99	135	63	25	90	–	<0.1	45	–	99	135	65	25	90	32	<0.1	45	–
99	134	–	23	89	29	<0.1	44	–	99	134	64	23	89	31	<0.1	44	–
99	133	62	21	88	28	<0.1	43	–	99	133	–	21	88	30	<0.1	43	–
98	132	61	19	87	27	<0.1	42	–	98	132	63	19	87	29	<0.1	42	–
98	131	–	18	86	26	<0.1	41	–	98	131	62	18	86	–	<0.1	41	–
98	130	60	16	85	25	<0.1	40	–	98	130	–	16	85	28	<0.1	40	–
97	129	59	14	84	–				97	129	61	14	84	27			
97	128	58	13	83	24				97	128	60	13	83	26			
96	127	–	12	82	23				96	127	59	12	82	–			
96	126	57	10	81	22				96	126	–	10	81	25			
95	125	56	9	80	21				95	125	58	9	80	24			
95	124	55	8	79	–				95	124	57	8	79	23			
94	123	–	7	78	20				94	123	56	7	78	22			
93	122	54	6	77	19				93	122	–	6	77	–			
92	121	53	5	76	18				92	121	55	5	76	21			
91	120	52	5	75	17				91	120	54	5	75	20			
90	119	–	4	74	–				90	119	–	4	74	19			
88	118	51	4	73	16				88	118	53	4	73	18			
87	117	50	3	72	15				87	117	52	3	72	–			
86	116	49	3	71	14				86	116	51	3	71	17			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 10–0 to 10–5									Ages 10–6 to 10–11								
Per- cent- ile	Standard score	Raw score	Per- cent- ile	Standard score	Raw score	Per- cent- ile	Standard score	Raw score	Per- cent- ile	Standard score	Raw score	Per- cent- ile	Standard score	Raw score	Per- cent- ile	Standard score	Raw score
>99.9	160	85–91	84	115	–	2	70	19	>99.9	160	86–91	84	115	–	2	70	–
>99.9	159	84	82	114	52	2	69	18	>99.9	159	85	82	114	54	2	69	21
>99.9	158	83	81	113	51	2	68	17	>99.9	158	–	81	113	53	2	68	20
>99.9	157	–	79	112	–	1	67	–	>99.9	157	84	79	112	–	1	67	19
>99.9	156	82	77	111	50	1	66	16	>99.9	156	83	77	111	52	1	66	–
>99.9	155	81	75	110	49	1	65	15	>99.9	155	–	75	110	51	1	65	18
>99.9	154	80	73	109	48	1	64	14	>99.9	154	82	73	109	–	1	64	17
>99.9	153	–	70	108	–	1	63	13	>99.9	153	81	70	108	50	1	63	16
>99.9	152	79	68	107	47	1	62	–	>99.9	152	80	68	107	49	1	62	–
>99.9	151	78	66	106	46	0.5	61	12	>99.9	151	–	66	106	48	0.5	61	15
>99.9	150	–	63	105	–	0.4	60	11	>99.9	150	79	63	105	–	0.4	60	14
99.9	149	77	61	104	45	0.3	59	10	99.9	149	78	61	104	47	0.3	59	13
99.9	148	76	58	103	44	0.3	58	–	99.9	148	–	58	103	46	0.3	58	–
99.9	147	75	55	102	43	0.2	57	9	99.9	147	77	55	102	–	0.2	57	12
99.9	146	–	53	101	–	0.2	56	8	99.9	146	76	53	101	45	0.2	56	11
99.9	145	74	50	100	42	0.1	55	7	99.9	145	–	50	100	44	0.1	55	10
99.8	144	73	47	99	41	0.1	54	–	99.8	144	75	47	99	–	0.1	54	–
99.8	143	–	45	98	40	0.1	53	6	99.8	143	74	45	98	43	0.1	53	9
99.7	142	72	42	97	–	0.1	52	5	99.7	142	–	42	97	42	0.1	52	8
99.7	141	71	39	96	39	0.1	51	4	99.7	141	73	39	96	41	0.1	51	7
99.6	140	70	37	95	38	<0.1	50	3	99.6	140	72	37	95	40	<0.1	50	–
99.5	139	–	34	94	37	<0.1	49	–	99.5	139	71	34	94	–	<0.1	49	6
99	138	69	32	93	–	<0.1	48	2	99	138	–	32	93	39	<0.1	48	5
99	137	68	30	92	36	<0.1	47	1	99	137	70	30	92	38	<0.1	47	4
99	136	–	27	91	35	<0.1	46	0	99	136	69	27	91	37	<0.1	46	–
99	135	67	25	90	34	<0.1	45	–	99	135	–	25	90	–	<0.1	45	3
99	134	66	23	89	33	<0.1	44	–	99	134	68	23	89	36	<0.1	44	2
99	133	65	21	88	–	<0.1	43	–	99	133	67	21	88	35	<0.1	43	1
98	132	–	19	87	32	<0.1	42	–	98	132	–	19	87	34	<0.1	42	–
98	131	64	18	86	31	<0.1	41	–	98	131	66	18	86	–	<0.1	41	0
98	130	63	16	85	30	<0.1	40	–	98	130	65	16	85	33	<0.1	40	–
97	129	–	14	84	–				97	129	64	14	84	32			
97	128	62	13	83	29				97	128	–	13	83	31			
96	127	61	12	82	28				96	127	63	12	82	–			
96	126	60	10	81	27				96	126	62	10	81	30			
95	125	–	9	80	–				95	125	–	9	80	29			
95	124	59	8	79	26				95	124	61	8	79	28			
94	123	58	7	78	25				94	123	60	7	78	–			
93	122	–	6	77	24				93	122	–	6	77	27			
92	121	57	5	76	23				92	121	59	5	76	26			
91	120	56	5	75	–				91	120	58	5	75	25			
90	119	55	4	74	22				90	119	–	4	74	–			
88	118	–	4	73	21				88	118	57	4	73	24			
87	117	54	3	72	20				87	117	56	3	72	23			
86	116	53	3	71	–				86	116	55	3	71	22			

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 11–0 to 11–5									Ages 11–6 to 11–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	88–91	84	115	57	2	70	–	>99.9	160	89–91	84	115	59	2	70	–
>99.9	159	87	82	114	56	2	69	24	>99.9	159	88	82	114	58	2	69	27
>99.9	158	86	81	113	–	2	68	23	>99.9	158	–	81	113	–	2	68	26
>99.9	157	–	79	112	55	1	67	22	>99.9	157	87	79	112	57	1	67	–
>99.9	156	85	77	111	54	1	66	–	>99.9	156	86	77	111	56	1	66	25
>99.9	155	84	75	110	53	1	65	21	>99.9	155	–	75	110	–	1	65	24
>99.9	154	83	73	109	–	1	64	20	>99.9	154	85	73	109	55	1	64	23
>99.9	153	–	70	108	52	1	63	19	>99.9	153	84	70	108	54	1	63	–
>99.9	152	82	68	107	51	1	62	–	>99.9	152	–	68	107	–	1	62	22
>99.9	151	81	66	106	–	0.5	61	18	>99.9	151	83	66	106	53	0.5	61	21
>99.9	150	–	63	105	50	0.4	60	17	>99.9	150	82	63	105	52	0.4	60	–
99.9	149	80	61	104	49	0.3	59	–	99.9	149	–	61	104	–	0.3	59	20
99.9	148	79	58	103	–	0.3	58	16	99.9	148	81	58	103	51	0.3	58	19
99.9	147	–	55	102	48	0.2	57	15	99.9	147	80	55	102	50	0.2	57	18
99.9	146	78	53	101	47	0.2	56	14	99.9	146	–	53	101	–	0.2	56	–
99.9	145	77	50	100	–	0.1	55	–	99.9	145	79	50	100	49	0.1	55	17
99.8	144	–	47	99	46	0.1	54	13	99.8	144	78	47	99	48	0.1	54	16
99.8	143	76	45	98	45	0.1	53	12	99.8	143	–	45	98	–	0.1	53	–
99.7	142	75	42	97	44	0.1	52	11	99.7	142	77	42	97	47	0.1	52	15
99.7	141	–	39	96	–	0.1	51	–	99.7	141	76	39	96	46	0.1	51	14
99.6	140	74	37	95	43	<0.1	50	10	99.6	140	–	37	95	–	<0.1	50	13
99.5	139	73	34	94	42	<0.1	49	9	99.5	139	75	34	94	45	<0.1	49	–
99	138	–	32	93	41	<0.1	48	8	99	138	74	32	93	44	<0.1	48	12
99	137	72	30	92	–	<0.1	47	–	99	137	–	30	92	43	<0.1	47	11
99	136	71	27	91	40	<0.1	46	7	99	136	73	27	91	–	<0.1	46	–
99	135	–	25	90	39	<0.1	45	6	99	135	72	25	90	42	<0.1	45	10
99	134	70	23	89	–	<0.1	44	–	99	134	–	23	89	41	<0.1	44	9
99	133	69	21	88	38	<0.1	43	5	99	133	71	21	88	–	<0.1	43	8
98	132	68	19	87	37	<0.1	42	4	98	132	70	19	87	40	<0.1	42	–
98	131	–	18	86	36	<0.1	41	3	98	131	–	18	86	39	<0.1	41	7
98	130	67	16	85	–	<0.1	40	0–2	98	130	69	16	85	38	<0.1	40	0–6
97	129	66	14	84	35				97	129	68	14	84	–			
97	128	–	13	83	34				97	128	–	13	83	37			
96	127	65	12	82	33				96	127	67	12	82	36			
96	126	64	10	81	–				96	126	66	10	81	–			
95	125	–	9	80	32				95	125	–	9	80	35			
95	124	63	8	79	31				95	124	65	8	79	34			
94	123	62	7	78	30				94	123	64	7	78	33			
93	122	–	6	77	–				93	122	–	6	77	–			
92	121	61	5	76	29				92	121	63	5	76	32			
91	120	60	5	75	28				91	120	62	5	75	31			
90	119	–	4	74	–				90	119	–	4	74	–			
88	118	59	4	73	27				88	118	61	4	73	30			
87	117	58	3	72	26				87	117	60	3	72	29			
86	116	–	3	71	25				86	116	–	3	71	28			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 12–0 to 12–5									Ages 12–6 to 12–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	91	84	115	61	2	70	31	>99.9	160	–	84	115	–	2	70	34
>99.9	159	90	82	114	–	2	69	30	>99.9	159	–	82	114	63	2	69	33
>99.9	158	89	81	113	60	2	68	29	>99.9	158	91	81	113	–	2	68	–
>99.9	157	–	79	112	59	1	67	–	>99.9	157	–	79	112	62	1	67	32
>99.9	156	88	77	111	–	1	66	28	>99.9	156	90	77	111	61	1	66	31
>99.9	155	–	75	110	58	1	65	27	>99.9	155	89	75	110	–	1	65	–
>99.9	154	87	73	109	57	1	64	–	>99.9	154	–	73	109	60	1	64	30
>99.9	153	86	70	108	–	1	63	26	>99.9	153	88	70	108	59	1	63	29
>99.9	152	–	68	107	56	1	62	25	>99.9	152	87	68	107	–	1	62	–
>99.9	151	85	66	106	–	0.5	61	–	>99.9	151	–	66	106	58	0.5	61	28
>99.9	150	84	63	105	55	0.4	60	24	>99.9	150	86	63	105	57	0.4	60	27
99.9	149	–	61	104	54	0.3	59	23	99.9	149	–	61	104	–	0.3	59	–
99.9	148	83	58	103	–	0.3	58	–	99.9	148	85	58	103	56	0.3	58	26
99.9	147	82	55	102	53	0.2	57	22	99.9	147	84	55	102	–	0.2	57	25
99.9	146	–	53	101	52	0.2	56	21	99.9	146	–	53	101	55	0.2	56	–
99.9	145	81	50	100	–	0.1	55	20	99.9	145	83	50	100	54	0.1	55	24
99.8	144	80	47	99	51	0.1	54	–	99.8	144	82	47	99	–	0.1	54	23
99.8	143	–	45	98	50	0.1	53	19	99.8	143	–	45	98	53	0.1	53	–
99.7	142	79	42	97	–	0.1	52	18	99.7	142	81	42	97	52	0.1	52	22
99.7	141	78	39	96	49	0.1	51	–	99.7	141	80	39	96	–	0.1	51	21
99.6	140	–	37	95	48	<0.1	50	17	99.6	140	–	37	95	51	<0.1	50	–
99.5	139	77	34	94	47	<0.1	49	16	99.5	139	79	34	94	50	<0.1	49	20
99	138	76	32	93	–	<0.1	48	–	99	138	–	32	93	–	<0.1	48	19
99	137	–	30	92	46	<0.1	47	15	99	137	78	30	92	49	<0.1	47	–
99	136	75	27	91	45	<0.1	46	14	99	136	77	27	91	48	<0.1	46	18
99	135	74	25	90	–	<0.1	45	–	99	135	–	25	90	–	<0.1	45	17
99	134	–	23	89	44	<0.1	44	13	99	134	76	23	89	47	<0.1	44	–
99	133	73	21	88	43	<0.1	43	12	99	133	75	21	88	46	<0.1	43	16
98	132	–	19	87	–	<0.1	42	11	98	132	–	19	87	–	<0.1	42	15
98	131	72	18	86	42	<0.1	41	–	98	131	74	18	86	45	<0.1	41	–
98	130	71	16	85	41	<0.1	40	0–10	98	130	73	16	85	44	<0.1	40	0–14
97	129	–	14	84	–				97	129	–	14	84	–			
97	128	70	13	83	40				97	128	72	13	83	43			
96	127	69	12	82	39				96	127	71	12	82	42			
96	126	–	10	81	38				96	126	–	10	81	–			
95	125	68	9	80	–				95	125	70	9	80	41			
95	124	67	8	79	37				95	124	–	8	79	40			
94	123	–	7	78	36				94	123	69	7	78	–			
93	122	66	6	77	–				93	122	68	6	77	39			
92	121	65	5	76	35				92	121	–	5	76	38			
91	120	–	5	75	34				91	120	67	5	75	–			
90	119	64	4	74	–				90	119	66	4	74	37			
88	118	63	4	73	33				88	118	–	4	73	36			
87	117	–	3	72	32				87	117	65	3	72	35			
86	116	62	3	71	–				86	116	64	3	71	–			

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 13–0 to 13–11									Ages 14–0 to 14–11								
Per- cent- tile	Standard score	Raw score	Per- cent- tile	Standard score	Raw score	Per- cent- tile	Standard score	Raw score	Per- cent- tile	Standard score	Raw score	Per- cent- tile	Standard score	Raw score	Per- cent- tile	Standard score	Raw score
>99.9	160	–	84	115	66	2	70	37	>99.9	160	–	84	115	69	2	70	38
>99.9	159	–	82	114	–	2	69	36	>99.9	159	–	82	114	68	2	69	37
>99.9	158	–	81	113	65	2	68	–	>99.9	158	–	81	113	–	2	68	–
>99.9	157	–	79	112	64	1	67	35	>99.9	157	–	79	112	67	1	67	36
>99.9	156	–	77	111	–	1	66	34	>99.9	156	–	77	111	66	1	66	35
>99.9	155	91	75	110	63	1	65	–	>99.9	155	–	75	110	–	1	65	34
>99.9	154	–	73	109	–	1	64	33	>99.9	154	–	73	109	65	1	64	–
>99.9	153	90	70	108	62	1	63	32	>99.9	153	–	70	108	–	1	63	33
>99.9	152	89	68	107	61	1	62	–	>99.9	152	91	68	107	64	1	62	32
>99.9	151	–	66	106	–	0.5	61	31	>99.9	151	–	66	106	63	0.5	61	31
>99.9	150	88	63	105	60	0.4	60	30	>99.9	150	90	63	105	–	0.4	60	–
99.9	149	–	61	104	59	0.3	59	–	99.9	149	–	61	104	62	0.3	59	30
99.9	148	87	58	103	–	0.3	58	29	99.9	148	89	58	103	–	0.3	58	29
99.9	147	86	55	102	58	0.2	57	28	99.9	147	88	55	102	61	0.2	57	–
99.9	146	–	53	101	–	0.2	56	–	99.9	146	–	53	101	60	0.2	56	28
99.9	145	85	50	100	57	0.1	55	27	99.9	145	87	50	100	–	0.1	55	27
99.8	144	84	47	99	56	0.1	54	26	99.8	144	–	47	99	59	0.1	54	26
99.8	143	–	45	98	–	0.1	53	–	99.8	143	86	45	98	58	0.1	53	–
99.7	142	83	42	97	55	0.1	52	25	99.7	142	85	42	97	–	0.1	52	25
99.7	141	–	39	96	54	0.1	51	24	99.7	141	–	39	96	57	0.1	51	24
99.6	140	82	37	95	–	<0.1	50	–	99.6	140	84	37	95	56	<0.1	50	–
99.5	139	81	34	94	53	<0.1	49	23	99.5	139	–	34	94	55	<0.1	49	23
99	138	–	32	93	52	<0.1	48	22	99	138	83	32	93	–	<0.1	48	22
99	137	80	30	92	–	<0.1	47	–	99	137	82	30	92	54	<0.1	47	21
99	136	79	27	91	51	<0.1	46	21	99	136	–	27	91	53	<0.1	46	–
99	135	–	25	90	50	<0.1	45	20	99	135	81	25	90	52	<0.1	45	20
99	134	78	23	89	–	<0.1	44	–	99	134	–	23	89	–	<0.1	44	19
99	133	–	21	88	49	<0.1	43	19	99	133	80	21	88	51	<0.1	43	18
98	132	77	19	87	48	<0.1	42	18	98	132	79	19	87	50	<0.1	42	–
98	131	76	18	86	–	<0.1	41	–	98	131	–	18	86	–	<0.1	41	17
98	130	–	16	85	47	<0.1	40	0–17	98	130	78	16	85	49	<0.1	40	0–16
97	129	75	14	84	46				97	129	77	14	84	48			
97	128	74	13	83	–				97	128	–	13	83	47			
96	127	–	12	82	45				96	127	76	12	82	–			
96	126	73	10	81	44				96	126	–	10	81	46			
95	125	–	9	80	–				95	125	75	9	80	45			
95	124	72	8	79	43				95	124	74	8	79	–			
94	123	71	7	78	42				94	123	–	7	78	44			
93	122	–	6	77	–				93	122	73	6	77	43			
92	121	70	5	76	41				92	121	–	5	76	42			
91	120	69	5	75	40				91	120	72	5	75	–			
90	119	–	4	74	–				90	119	71	4	74	41			
88	118	68	4	73	39				88	118	–	4	73	40			
87	117	–	3	72	38				87	117	70	3	72	39			
86	116	67	3	71	–				86	116	–	3	71	–			

Table A.1 continued on next page

Table A.1. Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 15–0 to 15–11									Ages 16–0 to 18–11								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	–	84	115	72	2	70	–	>99.9	160	–	84	115	76	2	70	41
>99.9	159	–	82	114	–	2	69	38	>99.9	159	–	82	114	75	2	69	40
>99.9	158	–	81	113	71	2	68	37	>99.9	158	–	81	113	–	2	68	39
>99.9	157	–	79	112	70	1	67	36	>99.9	157	–	79	112	74	1	67	–
>99.9	156	–	77	111	–	1	66	35	>99.9	156	–	77	111	73	1	66	38
>99.9	155	–	75	110	69	1	65	–	>99.9	155	–	75	110	–	1	65	37
>99.9	154	–	73	109	68	1	64	34	>99.9	154	–	73	109	72	1	64	36
>99.9	153	–	70	108	–	1	63	33	>99.9	153	–	70	108	71	1	63	35
>99.9	152	–	68	107	67	1	62	32	>99.9	152	–	68	107	–	1	62	–
>99.9	151	–	66	106	–	0.5	61	31	>99.9	151	–	66	106	70	0.5	61	34
>99.9	150	–	63	105	66	0.4	60	–	>99.9	150	–	63	105	69	0.4	60	33
99.9	149	–	61	104	65	0.3	59	30	99.9	149	–	61	104	–	0.3	59	32
99.9	148	–	58	103	–	0.3	58	29	99.9	148	–	58	103	68	0.3	58	31
99.9	147	–	55	102	64	0.2	57	28	99.9	147	–	55	102	67	0.2	57	30
99.9	146	–	53	101	63	0.2	56	27	99.9	146	–	53	101	66	0.2	56	–
99.9	145	91	50	100	–	0.1	55	–	99.9	145	–	50	100	–	0.1	55	29
99.8	144	–	47	99	62	0.1	54	26	99.8	144	–	47	99	65	0.1	54	28
99.8	143	90	45	98	61	0.1	53	25	99.8	143	–	45	98	64	0.1	53	27
99.7	142	89	42	97	60	0.1	52	24	99.7	142	–	42	97	63	0.1	52	26
99.7	141	–	39	96	59	0.1	51	23	99.7	141	–	39	96	62	0.1	51	–
99.6	140	88	37	95	–	<0.1	50	–	99.6	140	–	37	95	–	<0.1	50	25
99.5	139	87	34	94	58	<0.1	49	22	99.5	139	–	34	94	61	<0.1	49	24
99	138	–	32	93	57	<0.1	48	21	99	138	–	32	93	60	<0.1	48	23
99	137	86	30	92	56	<0.1	47	20	99	137	91	30	92	59	<0.1	47	22
99	136	–	27	91	55	<0.1	46	–	99	136	–	27	91	58	<0.1	46	21
99	135	85	25	90	–	<0.1	45	19	99	135	90	25	90	57	<0.1	45	–
99	134	84	23	89	54	<0.1	44	18	99	134	89	23	89	–	<0.1	44	20
99	133	–	21	88	53	<0.1	43	17	99	133	–	21	88	56	<0.1	43	19
98	132	83	19	87	52	<0.1	42	16	98	132	88	19	87	55	<0.1	42	18
98	131	82	18	86	51	<0.1	41	–	98	131	87	18	86	54	<0.1	41	17
98	130	–	16	85	–	<0.1	40	0–15	98	130	–	16	85	53	<0.1	40	0–16
97	129	81	14	84	50				97	129	86	14	84	–			
97	128	80	13	83	49				97	128	85	13	83	52			
96	127	–	12	82	48				96	127	–	12	82	51			
96	126	79	10	81	47				96	126	84	10	81	50			
95	125	–	9	80	–				95	125	83	9	80	49			
95	124	78	8	79	46				95	124	82	8	79	48			
94	123	77	7	78	45				94	123	–	7	78	–			
93	122	–	6	77	44				93	122	81	6	77	47			
92	121	76	5	76	43				92	121	80	5	76	46			
91	120	75	5	75	–				91	120	–	5	75	45			
90	119	–	4	74	42				90	119	79	4	74	44			
88	118	74	4	73	41				88	118	78	4	73	–			
87	117	–	3	72	40				87	117	–	3	72	43			
86	116	73	3	71	39				86	116	77	3	71	42			



**Table A.1.** Grammaticality Judgment Raw Score to Standard Score Conversion by Age (Updated) *continued*

Ages 19–0 to 21–11								
Percentile	Standard score	Raw score	Percentile	Standard score	Raw score	Percentile	Standard score	Raw score
>99.9	160	–	84	115	80	2	70	43
>99.9	159	–	82	114	79	2	69	42
>99.9	158	–	81	113	78	2	68	41
>99.9	157	–	79	112	–	1	67	40
>99.9	156	–	77	111	77	1	66	39
>99.9	155	–	75	110	76	1	65	38
>99.9	154	–	73	109	75	1	64	–
>99.9	153	–	70	108	–	1	63	37
>99.9	152	–	68	107	74	1	62	36
>99.9	151	–	66	106	73	0.5	61	35
>99.9	150	–	63	105	–	0.4	60	34
99.9	149	–	61	104	72	0.3	59	33
99.9	148	–	58	103	71	0.3	58	32
99.9	147	–	55	102	70	0.2	57	–
99.9	146	–	53	101	–	0.2	56	31
99.9	145	–	50	100	69	0.1	55	30
99.8	144	–	47	99	68	0.1	54	29
99.8	143	–	45	98	67	0.1	53	28
99.7	142	–	42	97	66	0.1	52	27
99.7	141	–	39	96	65	0.1	51	26
99.6	140	–	37	95	64	<0.1	50	25
99.5	139	–	34	94	–	<0.1	49	–
99	138	–	32	93	63	<0.1	48	24
99	137	–	30	92	62	<0.1	47	23
99	136	–	27	91	61	<0.1	46	22
99	135	–	25	90	60	<0.1	45	21
99	134	–	23	89	59	<0.1	44	20
99	133	–	21	88	58	<0.1	43	19
98	132	–	19	87	–	<0.1	42	–
98	131	–	18	86	57	<0.1	41	18
98	130	91	16	85	56	<0.1	40	0–17
97	129	90	14	84	55			
97	128	89	13	83	54			
96	127	–	12	82	53			
96	126	88	10	81	52			
95	125	87	9	80	51			
95	124	–	8	79	–			
94	123	86	7	78	50			
93	122	85	6	77	49			
92	121	84	5	76	48			
91	120	–	5	75	47			
90	119	83	4	74	46			
88	118	82	4	73	45			
87	117	81	3	72	–			
86	116	–	3	71	44			

**Table A.3.** Test-Age Equivalents of Grammaticality Judgment Raw Scores (Updated)

Test age	Raw score
< Start age	0–6
5–0 to 5–2	7–8
5–3 to 5–5	9–11
5–6 to 5–8	12–14
5–9 to 5–11	15–16
6–0 to 6–2	17–18
6–3 to 6–5	19–20
6–6 to 6–8	21–22
6–9 to 6–11	23–24
7–0 to 7–2	25–26
7–3 to 7–5	27–28
7–6 to 7–8	29–30
7–9 to 7–11	31–32
8–0 to 8–5	33–34
8–6 to 8–11	35–36
9–0 to 9–5	37–38
9–6 to 9–11	39–40
10–0 to 10–5	41–42
10–6 to 10–11	43–45
11–0 to 11–5	46–47
11–6 to 11–11	48–50
12–0 to 12–5	51–53
12–6 to 12–11	54–55
13–0 to 13–11	56–57
14–0 to 14–11	58–60
15–0 to 15–11	61–63
16–0 to 18–11	64–66
19–0 to 21–11	67–69
>21–11	70–91

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated)

Kindergarten, Fall									Kindergarten, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	70–91	84	115	–	2	70	0	>99.9	160	68–91	84	115	30	2	70	3
>99.9	159	69	82	114	27	2	69	–	>99.9	159	67	82	114	–	2	69	–
>99.9	158	68	81	113	26	2	68	–	>99.9	158	–	81	113	29	2	68	2
>99.9	157	67	79	112	25	1	67	–	>99.9	157	66	79	112	28	1	67	1
>99.9	156	66	77	111	24	1	66	–	>99.9	156	65	77	111	27	1	66	–
>99.9	155	65	75	110	23	1	65	–	>99.9	155	64	75	110	26	1	65	0
>99.9	154	64	73	109	22	1	64	–	>99.9	154	63	73	109	25	1	64	–
>99.9	153	63	70	108	21	1	63	–	>99.9	153	62	70	108	–	1	63	–
>99.9	152	62	68	107	20	1	62	–	>99.9	152	–	68	107	24	1	62	–
>99.9	151	61	66	106	19	0.5	61	–	>99.9	151	61	66	106	23	0.5	61	–
>99.9	150	60	63	105	18	0.4	60	–	>99.9	150	60	63	105	22	0.4	60	–
99.9	149	59	61	104	17	0.3	59	–	99.9	149	59	61	104	21	0.3	59	–
99.9	148	58	58	103	16	0.3	58	–	99.9	148	58	58	103	20	0.3	58	–
99.9	147	57	55	102	15	0.2	57	–	99.9	147	57	55	102	–	0.2	57	–
99.9	146	–	53	101	14	0.2	56	–	99.9	146	–	53	101	19	0.2	56	–
99.9	145	56	50	100	–	0.1	55	–	99.9	145	56	50	100	18	0.1	55	–
99.8	144	55	47	99	13	0.1	54	–	99.8	144	55	47	99	–	0.1	54	–
99.8	143	54	45	98	–	0.1	53	–	99.8	143	54	45	98	17	0.1	53	–
99.7	142	53	42	97	12	0.1	52	–	99.7	142	53	42	97	–	0.1	52	–
99.7	141	52	39	96	–	0.1	51	–	99.7	141	52	39	96	16	0.1	51	–
99.6	140	51	37	95	11	<0.1	50	–	99.6	140	–	37	95	–	<0.1	50	–
99.5	139	50	34	94	–	<0.1	49	–	99.5	139	51	34	94	15	<0.1	49	–
99	138	49	32	93	–	<0.1	48	–	99	138	50	32	93	–	<0.1	48	–
99	137	48	30	92	10	<0.1	47	–	99	137	49	30	92	14	<0.1	47	–
99	136	47	27	91	–	<0.1	46	–	99	136	48	27	91	–	<0.1	46	–
99	135	46	25	90	9	<0.1	45	–	99	135	47	25	90	13	<0.1	45	–
99	134	45	23	89	–	<0.1	44	–	99	134	46	23	89	–	<0.1	44	–
99	133	44	21	88	8	<0.1	43	–	99	133	–	21	88	12	<0.1	43	–
98	132	43	19	87	–	<0.1	42	–	98	132	45	19	87	–	<0.1	42	–
98	131	42	18	86	7	<0.1	41	–	98	131	44	18	86	11	<0.1	41	–
98	130	–	16	85	–	<0.1	40	–	98	130	43	16	85	–	<0.1	40	–
97	129	41	14	84	–				97	129	42	14	84	10			
97	128	40	13	83	6				97	128	41	13	83	–			
96	127	39	12	82	–				96	127	–	12	82	9			
96	126	38	10	81	5				96	126	40	10	81	–			
95	125	37	9	80	–				95	125	39	9	80	8			
95	124	36	8	79	4				95	124	38	8	79	–			
94	123	35	7	78	–				94	123	37	7	78	7			
93	122	34	6	77	3				93	122	36	6	77	–			
92	121	33	5	76	–				92	121	–	5	76	6			
91	120	32	5	75	–				91	120	35	5	75	–			
90	119	31	4	74	2				90	119	34	4	74	5			
88	118	30	4	73	–				88	118	33	4	73	–			
87	117	29	3	72	1				87	117	32	3	72	4			
86	116	28	3	71	–				86	116	31	3	71	–			

**Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued***

First Grade, Fall									First Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	67-91	84	115	33	2	70	3	>99.9	160	67-91	84	115	-	2	70	-
>99.9	159	-	82	114	32	2	69	-	>99.9	159	66	82	114	35	2	69	3
>99.9	158	66	81	113	-	2	68	2	>99.9	158	-	81	113	34	2	68	2
>99.9	157	65	79	112	31	1	67	1	>99.9	157	65	79	112	33	1	67	1
>99.9	156	64	77	111	30	1	66	-	>99.9	156	64	77	111	-	1	66	-
>99.9	155	-	75	110	29	1	65	0	>99.9	155	-	75	110	32	1	65	0
>99.9	154	63	73	109	-	1	64	-	>99.9	154	63	73	109	31	1	64	-
>99.9	153	62	70	108	28	1	63	-	>99.9	153	62	70	108	-	1	63	-
>99.9	152	61	68	107	27	1	62	-	>99.9	152	61	68	107	30	1	62	-
>99.9	151	-	66	106	26	0.5	61	-	>99.9	151	-	66	106	29	0.5	61	-
>99.9	150	60	63	105	-	0.4	60	-	>99.9	150	60	63	105	-	0.4	60	-
99.9	149	59	61	104	25	0.3	59	-	99.9	149	59	61	104	28	0.3	59	-
99.9	148	58	58	103	24	0.3	58	-	99.9	148	-	58	103	27	0.3	58	-
99.9	147	-	55	102	23	0.2	57	-	99.9	147	58	55	102	26	0.2	57	-
99.9	146	57	53	101	22	0.2	56	-	99.9	146	57	53	101	-	0.2	56	-
99.9	145	56	50	100	-	0.1	55	-	99.9	145	-	50	100	25	0.1	55	-
99.8	144	55	47	99	21	0.1	54	-	99.8	144	56	47	99	24	0.1	54	-
99.8	143	-	45	98	-	0.1	53	-	99.8	143	55	45	98	-	0.1	53	-
99.7	142	54	42	97	20	0.1	52	-	99.7	142	54	42	97	23	0.1	52	-
99.7	141	53	39	96	19	0.1	51	-	99.7	141	-	39	96	22	0.1	51	-
99.6	140	52	37	95	-	<0.1	50	-	99.6	140	53	37	95	21	<0.1	50	-
99.5	139	51	34	94	18	<0.1	49	-	99.5	139	52	34	94	-	<0.1	49	-
99	138	-	32	93	17	<0.1	48	-	99	138	-	32	93	20	<0.1	48	-
99	137	50	30	92	-	<0.1	47	-	99	137	51	30	92	19	<0.1	47	-
99	136	49	27	91	16	<0.1	46	-	99	136	50	27	91	-	<0.1	46	-
99	135	48	25	90	-	<0.1	45	-	99	135	-	25	90	18	<0.1	45	-
99	134	-	23	89	15	<0.1	44	-	99	134	49	23	89	17	<0.1	44	-
99	133	47	21	88	14	<0.1	43	-	99	133	48	21	88	16	<0.1	43	-
98	132	46	19	87	-	<0.1	42	-	98	132	47	19	87	-	<0.1	42	-
98	131	45	18	86	13	<0.1	41	-	98	131	-	18	86	15	<0.1	41	-
98	130	-	16	85	-	<0.1	40	-	98	130	46	16	85	14	<0.1	40	-
97	129	44	14	84	12				97	129	45	14	84	-			
97	128	43	13	83	11				97	128	-	13	83	13			
96	127	42	12	82	-				96	127	44	12	82	12			
96	126	-	10	81	10				96	126	43	10	81	11			
95	125	41	9	80	9				95	125	-	9	80	-			
95	124	40	8	79	-				95	124	42	8	79	10			
94	123	39	7	78	8				94	123	41	7	78	9			
93	122	38	6	77	-				93	122	40	6	77	-			
92	121	-	5	76	7				92	121	-	5	76	8			
91	120	37	5	75	6				91	120	39	5	75	7			
90	119	36	4	74	-				90	119	38	4	74	6			
88	118	35	4	73	5				88	118	-	4	73	-			
87	117	-	3	72	-				87	117	37	3	72	5			
86	116	34	3	71	4				86	116	36	3	71	4			

Table A.4 continued on next page

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Second Grade, Fall									Second Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	67-91	84	115	-	2	70	4	>99.9	160	67-91	84	115	-	2	70	5
>99.9	159	66	82	114	37	2	69	3	>99.9	159	66	82	114	39	2	69	4
>99.9	158	-	81	113	36	2	68	2	>99.9	158	-	81	113	38	2	68	-
>99.9	157	65	79	112	-	1	67	-	>99.9	157	65	79	112	-	1	67	3
>99.9	156	64	77	111	35	1	66	1	>99.9	156	-	77	111	37	1	66	2
>99.9	155	-	75	110	34	1	65	0	>99.9	155	64	75	110	-	1	65	1
>99.9	154	63	73	109	-	1	64	-	>99.9	154	63	73	109	36	1	64	0
>99.9	153	62	70	108	33	1	63	-	>99.9	153	-	70	108	35	1	63	-
>99.9	152	-	68	107	-	1	62	-	>99.9	152	62	68	107	-	1	62	-
>99.9	151	61	66	106	32	0.5	61	-	>99.9	151	-	66	106	34	0.5	61	-
>99.9	150	60	63	105	31	0.4	60	-	>99.9	150	61	63	105	-	0.4	60	-
99.9	149	-	61	104	-	0.3	59	-	99.9	149	60	61	104	33	0.3	59	-
99.9	148	59	58	103	30	0.3	58	-	99.9	148	-	58	103	32	0.3	58	-
99.9	147	58	55	102	29	0.2	57	-	99.9	147	59	55	102	-	0.2	57	-
99.9	146	-	53	101	-	0.2	56	-	99.9	146	-	53	101	31	0.2	56	-
99.9	145	57	50	100	28	0.1	55	-	99.9	145	58	50	100	30	0.1	55	-
99.8	144	-	47	99	27	0.1	54	-	99.8	144	57	47	99	-	0.1	54	-
99.8	143	56	45	98	26	0.1	53	-	99.8	143	-	45	98	29	0.1	53	-
99.7	142	55	42	97	-	0.1	52	-	99.7	142	56	42	97	28	0.1	52	-
99.7	141	-	39	96	25	0.1	51	-	99.7	141	55	39	96	27	0.1	51	-
99.6	140	54	37	95	24	<0.1	50	-	99.6	140	-	37	95	26	<0.1	50	-
99.5	139	53	34	94	23	<0.1	49	-	99.5	139	54	34	94	25	<0.1	49	-
99	138	-	32	93	22	<0.1	48	-	99	138	-	32	93	-	<0.1	48	-
99	137	52	30	92	-	<0.1	47	-	99	137	53	30	92	24	<0.1	47	-
99	136	51	27	91	21	<0.1	46	-	99	136	52	27	91	23	<0.1	46	-
99	135	-	25	90	20	<0.1	45	-	99	135	-	25	90	22	<0.1	45	-
99	134	50	23	89	19	<0.1	44	-	99	134	51	23	89	21	<0.1	44	-
99	133	49	21	88	18	<0.1	43	-	99	133	-	21	88	20	<0.1	43	-
98	132	-	19	87	-	<0.1	42	-	98	132	50	19	87	-	<0.1	42	-
98	131	48	18	86	17	<0.1	41	-	98	131	49	18	86	19	<0.1	41	-
98	130	47	16	85	16	<0.1	40	-	98	130	-	16	85	18	<0.1	40	-
97	129	-	14	84	15				97	129	48	14	84	17			
97	128	46	13	83	14				97	128	-	13	83	16			
96	127	45	12	82	-				96	127	47	12	82	15			
96	126	-	10	81	13				96	126	46	10	81	14			
95	125	44	9	80	12				95	125	-	9	80	-			
95	124	-	8	79	11				95	124	45	8	79	13			
94	123	43	7	78	10				94	123	44	7	78	12			
93	122	42	6	77	-				93	122	-	6	77	11			
92	121	-	5	76	9				92	121	43	5	76	10			
91	120	41	5	75	8				91	120	-	5	75	9			
90	119	40	4	74	7				90	119	42	4	74	-			
88	118	-	4	73	6				88	118	41	4	73	8			
87	117	39	3	72	-				87	117	-	3	72	7			
86	116	38	3	71	5				86	116	40	3	71	6			

**Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued***

Third Grade, Fall									Third Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	68-91	84	115	41	2	70	9	>99.9	160	68-91	84	115	-	2	70	12
>99.9	159	67	82	114	-	2	69	8	>99.9	159	-	82	114	42	2	69	11
>99.9	158	66	81	113	40	2	68	7	>99.9	158	67	81	113	-	2	68	10
>99.9	157	-	79	112	-	1	67	6	>99.9	157	-	79	112	41	1	67	-
>99.9	156	65	77	111	39	1	66	-	>99.9	156	66	77	111	-	1	66	9
>99.9	155	-	75	110	38	1	65	5	>99.9	155	65	75	110	40	1	65	8
>99.9	154	64	73	109	-	1	64	4	>99.9	154	-	73	109	39	1	64	7
>99.9	153	63	70	108	37	1	63	3	>99.9	153	64	70	108	-	1	63	-
>99.9	152	-	68	107	-	1	62	-	>99.9	152	-	68	107	38	1	62	6
>99.9	151	62	66	106	36	0.5	61	2	>99.9	151	63	66	106	-	0.5	61	5
>99.9	150	-	63	105	-	0.4	60	1	>99.9	150	-	63	105	37	0.4	60	4
99.9	149	61	61	104	35	0.3	59	0	99.9	149	62	61	104	-	0.3	59	-
99.9	148	-	58	103	34	0.3	58	-	99.9	148	61	58	103	36	0.3	58	3
99.9	147	60	55	102	-	0.2	57	-	99.9	147	-	55	102	-	0.2	57	2
99.9	146	59	53	101	33	0.2	56	-	99.9	146	60	53	101	35	0.2	56	1
99.9	145	-	50	100	32	0.1	55	-	99.9	145	-	50	100	34	0.1	55	-
99.8	144	58	47	99	-	0.1	54	-	99.8	144	59	47	99	-	0.1	54	0
99.8	143	-	45	98	31	0.1	53	-	99.8	143	-	45	98	33	0.1	53	-
99.7	142	57	42	97	30	0.1	52	-	99.7	142	58	42	97	32	0.1	52	-
99.7	141	56	39	96	29	0.1	51	-	99.7	141	-	39	96	31	0.1	51	-
99.6	140	-	37	95	-	<0.1	50	-	99.6	140	57	37	95	-	<0.1	50	-
99.5	139	55	34	94	28	<0.1	49	-	99.5	139	56	34	94	30	<0.1	49	-
99	138	-	32	93	27	<0.1	48	-	99	138	-	32	93	29	<0.1	48	-
99	137	54	30	92	26	<0.1	47	-	99	137	55	30	92	28	<0.1	47	-
99	136	-	27	91	25	<0.1	46	-	99	136	-	27	91	-	<0.1	46	-
99	135	53	25	90	-	<0.1	45	-	99	135	54	25	90	27	<0.1	45	-
99	134	52	23	89	24	<0.1	44	-	99	134	-	23	89	26	<0.1	44	-
99	133	-	21	88	23	<0.1	43	-	99	133	53	21	88	25	<0.1	43	-
98	132	51	19	87	22	<0.1	42	-	98	132	52	19	87	-	<0.1	42	-
98	131	-	18	86	21	<0.1	41	-	98	131	-	18	86	24	<0.1	41	-
98	130	50	16	85	-	<0.1	40	-	98	130	51	16	85	23	<0.1	40	-
97	129	49	14	84	20				97	129	-	14	84	22			
97	128	-	13	83	19				97	128	50	13	83	-			
96	127	48	12	82	18				96	127	-	12	82	21			
96	126	-	10	81	17				96	126	49	10	81	20			
95	125	47	9	80	-				95	125	-	9	80	19			
95	124	-	8	79	16				95	124	48	8	79	-			
94	123	46	7	78	15				94	123	47	7	78	18			
93	122	45	6	77	14				93	122	-	6	77	17			
92	121	-	5	76	-				92	121	46	5	76	16			
91	120	44	5	75	13				91	120	-	5	75	-			
90	119	-	4	74	12				90	119	45	4	74	15			
88	118	43	4	73	11				88	118	-	4	73	14			
87	117	42	3	72	10				87	117	44	3	72	13			
86	116	-	3	71	-				86	116	43	3	71	-			

Table A.4 continued on next page

**Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued***

Fourth Grade, Fall									Fourth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	69–91	84	115	44	2	70	14	>99.9	160	70–91	84	115	–	2	70	–
>99.9	159	–	82	114	–	2	69	–	>99.9	159	–	82	114	45	2	69	16
>99.9	158	68	81	113	43	2	68	13	>99.9	158	69	81	113	44	2	68	15
>99.9	157	–	79	112	–	1	67	12	>99.9	157	–	79	112	–	1	67	–
>99.9	156	67	77	111	42	1	66	–	>99.9	156	68	77	111	43	1	66	14
>99.9	155	66	75	110	–	1	65	11	>99.9	155	–	75	110	–	1	65	13
>99.9	154	–	73	109	41	1	64	10	>99.9	154	67	73	109	42	1	64	–
>99.9	153	65	70	108	40	1	63	9	>99.9	153	66	70	108	–	1	63	12
>99.9	152	–	68	107	–	1	62	–	>99.9	152	–	68	107	41	1	62	11
>99.9	151	64	66	106	39	0.5	61	8	>99.9	151	65	66	106	–	0.5	61	–
>99.9	150	–	63	105	–	0.4	60	7	>99.9	150	–	63	105	40	0.4	60	10
99.9	149	63	61	104	38	0.3	59	–	99.9	149	64	61	104	39	0.3	59	9
99.9	148	–	58	103	–	0.3	58	6	99.9	148	–	58	103	–	0.3	58	8
99.9	147	62	55	102	37	0.2	57	5	99.9	147	63	55	102	38	0.2	57	–
99.9	146	61	53	101	–	0.2	56	4	99.9	146	–	53	101	–	0.2	56	7
99.9	145	–	50	100	36	0.1	55	–	99.9	145	62	50	100	37	0.1	55	6
99.8	144	60	47	99	35	0.1	54	3	99.8	144	–	47	99	–	0.1	54	–
99.8	143	–	45	98	34	0.1	53	2	99.8	143	61	45	98	36	0.1	53	5
99.7	142	59	42	97	–	0.1	52	–	99.7	142	60	42	97	35	0.1	52	4
99.7	141	–	39	96	33	0.1	51	1	99.7	141	–	39	96	34	0.1	51	–
99.6	140	58	37	95	32	<0.1	50	0	99.6	140	59	37	95	–	<0.1	50	3
99.5	139	–	34	94	–	<0.1	49	–	99.5	139	–	34	94	33	<0.1	49	2
99	138	57	32	93	31	<0.1	48	–	99	138	58	32	93	32	<0.1	48	–
99	137	56	30	92	30	<0.1	47	–	99	137	–	30	92	–	<0.1	47	1
99	136	–	27	91	29	<0.1	46	–	99	136	57	27	91	31	<0.1	46	0
99	135	55	25	90	–	<0.1	45	–	99	135	–	25	90	30	<0.1	45	–
99	134	–	23	89	28	<0.1	44	–	99	134	56	23	89	–	<0.1	44	–
99	133	54	21	88	27	<0.1	43	–	99	133	55	21	88	29	<0.1	43	–
98	132	–	19	87	–	<0.1	42	–	98	132	–	19	87	28	<0.1	42	–
98	131	53	18	86	26	<0.1	41	–	98	131	54	18	86	–	<0.1	41	–
98	130	–	16	85	25	<0.1	40	–	98	130	–	16	85	27	<0.1	40	–
97	129	52	14	84	24				97	129	53	14	84	26			
97	128	51	13	83	–				97	128	–	13	83	–			
96	127	–	12	82	23				96	127	52	12	82	25			
96	126	50	10	81	22				96	126	–	10	81	24			
95	125	–	9	80	–				95	125	51	9	80	–			
95	124	49	8	79	21				95	124	–	8	79	23			
94	123	–	7	78	20				94	123	50	7	78	22			
93	122	48	6	77	19				93	122	49	6	77	21			
92	121	–	5	76	–				92	121	–	5	76	–			
91	120	47	5	75	18				91	120	48	5	75	20			
90	119	46	4	74	17				90	119	–	4	74	19			
88	118	–	4	73	–				88	118	47	4	73	–			
87	117	45	3	72	16				87	117	–	3	72	18			
86	116	–	3	71	15				86	116	46	3	71	17			

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Fifth Grade, Fall									Fifth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	72-91	84	115	-	2	70	-	>99.9	160	73-91	84	115	-	2	70	20
>99.9	159	71	82	114	46	2	69	18	>99.9	159	-	82	114	47	2	69	-
>99.9	158	-	81	113	-	2	68	17	>99.9	158	72	81	113	-	2	68	19
>99.9	157	70	79	112	45	1	67	-	>99.9	157	71	79	112	46	1	67	18
>99.9	156	69	77	111	-	1	66	16	>99.9	156	-	77	111	-	1	66	-
>99.9	155	-	75	110	44	1	65	15	>99.9	155	70	75	110	45	1	65	17
>99.9	154	68	73	109	43	1	64	-	>99.9	154	-	73	109	44	1	64	16
>99.9	153	-	70	108	-	1	63	14	>99.9	153	69	70	108	-	1	63	-
>99.9	152	67	68	107	42	1	62	13	>99.9	152	-	68	107	43	1	62	15
>99.9	151	-	66	106	-	0.5	61	-	>99.9	151	68	66	106	-	0.5	61	14
>99.9	150	66	63	105	41	0.4	60	12	>99.9	150	67	63	105	42	0.4	60	-
99.9	149	-	61	104	-	0.3	59	11	99.9	149	-	61	104	-	0.3	59	13
99.9	148	65	58	103	40	0.3	58	-	99.9	148	66	58	103	41	0.3	58	12
99.9	147	64	55	102	-	0.2	57	10	99.9	147	-	55	102	-	0.2	57	-
99.9	146	-	53	101	39	0.2	56	9	99.9	146	65	53	101	40	0.2	56	11
99.9	145	63	50	100	38	0.1	55	-	99.9	145	-	50	100	39	0.1	55	-
99.8	144	-	47	99	-	0.1	54	8	99.8	144	64	47	99	-	0.1	54	10
99.8	143	62	45	98	37	0.1	53	7	99.8	143	-	45	98	38	0.1	53	9
99.7	142	-	42	97	36	0.1	52	-	99.7	142	63	42	97	37	0.1	52	-
99.7	141	61	39	96	-	0.1	51	6	99.7	141	62	39	96	-	0.1	51	8
99.6	140	-	37	95	35	<0.1	50	5	99.6	140	-	37	95	36	<0.1	50	7
99.5	139	60	34	94	34	<0.1	49	-	99.5	139	61	34	94	-	<0.1	49	-
99	138	59	32	93	-	<0.1	48	4	99	138	-	32	93	35	<0.1	48	6
99	137	-	30	92	33	<0.1	47	3	99	137	60	30	92	34	<0.1	47	5
99	136	58	27	91	32	<0.1	46	-	99	136	-	27	91	-	<0.1	46	-
99	135	-	25	90	-	<0.1	45	2	99	135	59	25	90	33	<0.1	45	4
99	134	57	23	89	31	<0.1	44	1	99	134	-	23	89	32	<0.1	44	3
99	133	-	21	88	30	<0.1	43	-	99	133	58	21	88	-	<0.1	43	-
98	132	56	19	87	-	<0.1	42	0	98	132	57	19	87	31	<0.1	42	2
98	131	-	18	86	29	<0.1	41	-	98	131	-	18	86	30	<0.1	41	-
98	130	55	16	85	28	<0.1	40	-	98	130	56	16	85	-	<0.1	40	0-1
97	129	54	14	84	-				97	129	-	14	84	29			
97	128	-	13	83	27				97	128	55	13	83	-			
96	127	53	12	82	26				96	127	-	12	82	28			
96	126	-	10	81	-				96	126	54	10	81	27			
95	125	52	9	80	25				95	125	53	9	80	-			
95	124	-	8	79	-				95	124	-	8	79	26			
94	123	51	7	78	24				94	123	52	7	78	25			
93	122	-	6	77	23				93	122	-	6	77	-			
92	121	50	5	76	-				92	121	51	5	76	24			
91	120	-	5	75	22				91	120	-	5	75	23			
90	119	49	4	74	21				90	119	50	4	74	-			
88	118	48	4	73	-				88	118	-	4	73	22			
87	117	-	3	72	20				87	117	49	3	72	21			
86	116	47	3	71	19				86	116	48	3	71	-			

Table A.4 continued on next page

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Sixth Grade, Fall									Sixth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	75–91	84	115	49	2	70	21	>99.9	160	76–91	84	115	50	2	70	–
>99.9	159	74	82	114	48	2	69	–	>99.9	159	–	82	114	49	2	69	22
>99.9	158	–	81	113	–	2	68	20	>99.9	158	75	81	113	–	2	68	21
>99.9	157	73	79	112	47	1	67	–	>99.9	157	–	79	112	48	1	67	–
>99.9	156	72	77	111	–	1	66	19	>99.9	156	74	77	111	–	1	66	20
>99.9	155	–	75	110	46	1	65	18	>99.9	155	73	75	110	47	1	65	–
>99.9	154	71	73	109	–	1	64	–	>99.9	154	–	73	109	46	1	64	19
>99.9	153	–	70	108	45	1	63	17	>99.9	153	72	70	108	–	1	63	18
>99.9	152	70	68	107	44	1	62	16	>99.9	152	–	68	107	45	1	62	–
>99.9	151	–	66	106	–	0.5	61	–	>99.9	151	71	66	106	–	0.5	61	17
>99.9	150	69	63	105	43	0.4	60	15	>99.9	150	70	63	105	44	0.4	60	16
99.9	149	68	61	104	–	0.3	59	–	99.9	149	–	61	104	–	0.3	59	–
99.9	148	–	58	103	42	0.3	58	14	99.9	148	69	58	103	43	0.3	58	15
99.9	147	67	55	102	–	0.2	57	13	99.9	147	–	55	102	42	0.2	57	–
99.9	146	–	53	101	41	0.2	56	–	99.9	146	68	53	101	–	0.2	56	14
99.9	145	66	50	100	40	0.1	55	12	99.9	145	–	50	100	41	0.1	55	13
99.8	144	–	47	99	–	0.1	54	11	99.8	144	67	47	99	–	0.1	54	–
99.8	143	65	45	98	39	0.1	53	–	99.8	143	66	45	98	40	0.1	53	12
99.7	142	64	42	97	38	0.1	52	10	99.7	142	–	42	97	39	0.1	52	11
99.7	141	–	39	96	–	0.1	51	–	99.7	141	65	39	96	–	0.1	51	–
99.6	140	63	37	95	37	<0.1	50	9	99.6	140	–	37	95	38	<0.1	50	10
99.5	139	–	34	94	–	<0.1	49	8	99.5	139	64	34	94	37	<0.1	49	–
99	138	62	32	93	36	<0.1	48	–	99	138	63	32	93	–	<0.1	48	9
99	137	–	30	92	35	<0.1	47	7	99	137	–	30	92	36	<0.1	47	8
99	136	61	27	91	–	<0.1	46	6	99	136	62	27	91	–	<0.1	46	–
99	135	60	25	90	34	<0.1	45	–	99	135	–	25	90	35	<0.1	45	7
99	134	–	23	89	33	<0.1	44	5	99	134	61	23	89	34	<0.1	44	6
99	133	59	21	88	–	<0.1	43	–	99	133	–	21	88	–	<0.1	43	–
98	132	–	19	87	32	<0.1	42	4	98	132	60	19	87	33	<0.1	42	5
98	131	58	18	86	–	<0.1	41	3	98	131	59	18	86	–	<0.1	41	–
98	130	–	16	85	31	<0.1	40	0–2	98	130	–	16	85	32	<0.1	40	0–4
97	129	57	14	84	30				97	129	58	14	84	31			
97	128	56	13	83	–				97	128	–	13	83	–			
96	127	–	12	82	29				96	127	57	12	82	30			
96	126	55	10	81	28				96	126	56	10	81	29			
95	125	–	9	80	–				95	125	–	9	80	–			
95	124	54	8	79	27				95	124	55	8	79	28			
94	123	–	7	78	–				94	123	–	7	78	–			
93	122	53	6	77	26				93	122	54	6	77	27			
92	121	52	5	76	25				92	121	–	5	76	26			
91	120	–	5	75	–				91	120	53	5	75	–			
90	119	51	4	74	24				90	119	52	4	74	25			
88	118	–	4	73	23				88	118	–	4	73	24			
87	117	50	3	72	–				87	117	51	3	72	–			
86	116	–	3	71	22				86	116	–	3	71	23			



Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Seventh Grade, Fall									Seventh Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	78-91	84	115	51	2	70	-	>99.9	160	80-91	84	115	52	2	70	24
>99.9	159	77	82	114	50	2	69	23	>99.9	159	79	82	114	-	2	69	-
>99.9	158	-	81	113	-	2	68	22	>99.9	158	78	81	113	51	2	68	23
>99.9	157	76	79	112	49	1	67	-	>99.9	157	-	79	112	50	1	67	-
>99.9	156	-	77	111	-	1	66	21	>99.9	156	77	77	111	-	1	66	22
>99.9	155	75	75	110	48	1	65	-	>99.9	155	-	75	110	49	1	65	21
>99.9	154	74	73	109	47	1	64	20	>99.9	154	76	73	109	-	1	64	-
>99.9	153	-	70	108	-	1	63	19	>99.9	153	75	70	108	48	1	63	20
>99.9	152	73	68	107	46	1	62	-	>99.9	152	-	68	107	47	1	62	19
>99.9	151	-	66	106	-	0.5	61	18	>99.9	151	74	66	106	-	0.5	61	-
>99.9	150	72	63	105	45	0.4	60	17	>99.9	150	-	63	105	46	0.4	60	18
99.9	149	71	61	104	44	0.3	59	-	99.9	149	73	61	104	45	0.3	59	-
99.9	148	-	58	103	-	0.3	58	16	99.9	148	72	58	103	-	0.3	58	17
99.9	147	70	55	102	43	0.2	57	-	99.9	147	-	55	102	44	0.2	57	16
99.9	146	-	53	101	-	0.2	56	15	99.9	146	71	53	101	-	0.2	56	-
99.9	145	69	50	100	42	0.1	55	14	99.9	145	-	50	100	43	0.1	55	15
99.8	144	68	47	99	41	0.1	54	-	99.8	144	70	47	99	42	0.1	54	-
99.8	143	-	45	98	-	0.1	53	13	99.8	143	69	45	98	-	0.1	53	14
99.7	142	67	42	97	40	0.1	52	12	99.7	142	-	42	97	41	0.1	52	13
99.7	141	-	39	96	-	0.1	51	-	99.7	141	68	39	96	-	0.1	51	-
99.6	140	66	37	95	39	<0.1	50	11	99.6	140	67	37	95	40	<0.1	50	12
99.5	139	65	34	94	38	<0.1	49	-	99.5	139	-	34	94	39	<0.1	49	11
99	138	-	32	93	-	<0.1	48	10	99	138	66	32	93	-	<0.1	48	-
99	137	64	30	92	37	<0.1	47	9	99	137	-	30	92	38	<0.1	47	10
99	136	-	27	91	-	<0.1	46	-	99	136	65	27	91	37	<0.1	46	-
99	135	63	25	90	36	<0.1	45	8	99	135	64	25	90	-	<0.1	45	9
99	134	62	23	89	35	<0.1	44	-	99	134	-	23	89	36	<0.1	44	8
99	133	-	21	88	-	<0.1	43	7	99	133	63	21	88	-	<0.1	43	-
98	132	61	19	87	34	<0.1	42	6	98	132	-	19	87	35	<0.1	42	7
98	131	-	18	86	33	<0.1	41	-	98	131	62	18	86	34	<0.1	41	6
98	130	60	16	85	-	<0.1	40	0-5	98	130	61	16	85	-	<0.1	40	0-5
97	129	59	14	84	32				97	129	-	14	84	33			
97	128	-	13	83	-				97	128	60	13	83	32			
96	127	58	12	82	31				96	127	-	12	82	-			
96	126	-	10	81	30				96	126	59	10	81	31			
95	125	57	9	80	-				95	125	58	9	80	-			
95	124	56	8	79	29				95	124	-	8	79	30			
94	123	-	7	78	-				94	123	57	7	78	29			
93	122	55	6	77	28				93	122	56	6	77	-			
92	121	-	5	76	27				92	121	-	5	76	28			
91	120	54	5	75	-				91	120	55	5	75	-			
90	119	53	4	74	26				90	119	-	4	74	27			
88	118	-	4	73	25				88	118	54	4	73	26			
87	117	52	3	72	-				87	117	53	3	72	-			
86	116	-	3	71	24				86	116	-	3	71	25			

Table A.4 continued on next page

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Eighth Grade, Fall									Eighth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	81–91	84	115	53	2	70	25	>99.9	160	83–91	84	115	–	2	70	26
>99.9	159	–	82	114	–	2	69	–	>99.9	159	82	82	114	54	2	69	25
>99.9	158	80	81	113	52	2	68	24	>99.9	158	–	81	113	53	2	68	–
>99.9	157	–	79	112	–	1	67	23	>99.9	157	81	79	112	–	1	67	24
>99.9	156	79	77	111	51	1	66	–	>99.9	156	–	77	111	52	1	66	23
>99.9	155	78	75	110	50	1	65	22	>99.9	155	80	75	110	51	1	65	–
>99.9	154	–	73	109	–	1	64	21	>99.9	154	79	73	109	–	1	64	22
>99.9	153	77	70	108	49	1	63	–	>99.9	153	–	70	108	50	1	63	21
>99.9	152	76	68	107	48	1	62	20	>99.9	152	78	68	107	–	1	62	–
>99.9	151	–	66	106	–	0.5	61	–	>99.9	151	77	66	106	49	0.5	61	20
>99.9	150	75	63	105	47	0.4	60	19	>99.9	150	–	63	105	48	0.4	60	–
99.9	149	–	61	104	–	0.3	59	18	99.9	149	76	61	104	–	0.3	59	19
99.9	148	74	58	103	46	0.3	58	–	99.9	148	75	58	103	47	0.3	58	18
99.9	147	73	55	102	45	0.2	57	17	99.9	147	–	55	102	46	0.2	57	–
99.9	146	–	53	101	–	0.2	56	16	99.9	146	74	53	101	–	0.2	56	17
99.9	145	72	50	100	44	0.1	55	–	99.9	145	–	50	100	45	0.1	55	16
99.8	144	71	47	99	43	0.1	54	15	99.8	144	73	47	99	–	0.1	54	–
99.8	143	–	45	98	–	0.1	53	–	99.8	143	72	45	98	44	0.1	53	15
99.7	142	70	42	97	42	0.1	52	14	99.7	142	–	42	97	43	0.1	52	14
99.7	141	–	39	96	–	0.1	51	13	99.7	141	71	39	96	–	0.1	51	–
99.6	140	69	37	95	41	<0.1	50	–	99.6	140	70	37	95	42	<0.1	50	13
99.5	139	68	34	94	40	<0.1	49	12	99.5	139	–	34	94	41	<0.1	49	–
99	138	–	32	93	–	<0.1	48	11	99	138	69	32	93	–	<0.1	48	12
99	137	67	30	92	39	<0.1	47	–	99	137	–	30	92	40	<0.1	47	11
99	136	66	27	91	38	<0.1	46	10	99	136	68	27	91	39	<0.1	46	–
99	135	–	25	90	–	<0.1	45	–	99	135	67	25	90	–	<0.1	45	10
99	134	65	23	89	37	<0.1	44	9	99	134	–	23	89	38	<0.1	44	9
99	133	–	21	88	–	<0.1	43	8	99	133	66	21	88	37	<0.1	43	–
98	132	64	19	87	36	<0.1	42	–	98	132	65	19	87	–	<0.1	42	8
98	131	63	18	86	35	<0.1	41	7	98	131	–	18	86	36	<0.1	41	7
98	130	–	16	85	–	<0.1	40	0–6	98	130	64	16	85	–	<0.1	40	0–6
97	129	62	14	84	34				97	129	63	14	84	35			
97	128	61	13	83	33				97	128	–	13	83	34			
96	127	–	12	82	–				96	127	62	12	82	–			
96	126	60	10	81	32				96	126	–	10	81	33			
95	125	–	9	80	31				95	125	61	9	80	32			
95	124	59	8	79	–				95	124	60	8	79	–			
94	123	58	7	78	30				94	123	–	7	78	31			
93	122	–	6	77	–				93	122	59	6	77	30			
92	121	57	5	76	29				92	121	58	5	76	–			
91	120	56	5	75	28				91	120	–	5	75	29			
90	119	–	4	74	–				90	119	57	4	74	–			
88	118	55	4	73	27				88	118	–	4	73	28			
87	117	–	3	72	26				87	117	56	3	72	27			
86	116	54	3	71	–				86	116	55	3	71	–			

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Ninth Grade, Fall									Ninth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	85-91	84	115	56	2	70	-	>99.9	160	86-91	84	115	-	2	70	-
>99.9	159	84	82	114	55	2	69	26	>99.9	159	-	82	114	57	2	69	27
>99.9	158	83	81	113	-	2	68	25	>99.9	158	85	81	113	56	2	68	26
>99.9	157	-	79	112	54	1	67	-	>99.9	157	84	79	112	-	1	67	25
>99.9	156	82	77	111	53	1	66	24	>99.9	156	-	77	111	55	1	66	-
>99.9	155	81	75	110	-	1	65	23	>99.9	155	83	75	110	54	1	65	24
>99.9	154	-	73	109	52	1	64	-	>99.9	154	82	73	109	-	1	64	23
>99.9	153	80	70	108	-	1	63	22	>99.9	153	-	70	108	53	1	63	-
>99.9	152	-	68	107	51	1	62	21	>99.9	152	81	68	107	52	1	62	22
>99.9	151	79	66	106	50	0.5	61	-	>99.9	151	80	66	106	-	0.5	61	21
>99.9	150	78	63	105	-	0.4	60	20	>99.9	150	-	63	105	51	0.4	60	-
99.9	149	-	61	104	49	0.3	59	19	99.9	149	79	61	104	-	0.3	59	20
99.9	148	77	58	103	48	0.3	58	-	99.9	148	-	58	103	50	0.3	58	19
99.9	147	76	55	102	-	0.2	57	18	99.9	147	78	55	102	49	0.2	57	-
99.9	146	-	53	101	47	0.2	56	-	99.9	146	77	53	101	-	0.2	56	18
99.9	145	75	50	100	46	0.1	55	17	99.9	145	-	50	100	48	0.1	55	17
99.8	144	74	47	99	-	0.1	54	16	99.8	144	76	47	99	47	0.1	54	-
99.8	143	-	45	98	45	0.1	53	-	99.8	143	75	45	98	-	0.1	53	16
99.7	142	73	42	97	44	0.1	52	15	99.7	142	-	42	97	46	0.1	52	15
99.7	141	-	39	96	-	0.1	51	14	99.7	141	74	39	96	45	0.1	51	-
99.6	140	72	37	95	43	<0.1	50	-	99.6	140	73	37	95	-	<0.1	50	14
99.5	139	71	34	94	-	<0.1	49	13	99.5	139	-	34	94	44	<0.1	49	13
99	138	-	32	93	42	<0.1	48	12	99	138	72	32	93	43	<0.1	48	-
99	137	70	30	92	41	<0.1	47	-	99	137	-	30	92	-	<0.1	47	12
99	136	69	27	91	-	<0.1	46	11	99	136	71	27	91	42	<0.1	46	11
99	135	-	25	90	40	<0.1	45	10	99	135	70	25	90	41	<0.1	45	10
99	134	68	23	89	39	<0.1	44	-	99	134	-	23	89	40	<0.1	44	-
99	133	67	21	88	-	<0.1	43	9	99	133	69	21	88	-	<0.1	43	9
98	132	-	19	87	38	<0.1	42	8	98	132	68	19	87	39	<0.1	42	8
98	131	66	18	86	37	<0.1	41	-	98	131	-	18	86	38	<0.1	41	-
98	130	-	16	85	-	<0.1	40	0-7	98	130	67	16	85	-	<0.1	40	0-7
97	129	65	14	84	36				97	129	66	14	84	37			
97	128	64	13	83	35				97	128	-	13	83	36			
96	127	-	12	82	-				96	127	65	12	82	-			
96	126	63	10	81	34				96	126	-	10	81	35			
95	125	62	9	80	33				95	125	64	9	80	34			
95	124	-	8	79	-				95	124	63	8	79	-			
94	123	61	7	78	32				94	123	-	7	78	33			
93	122	60	6	77	31				93	122	62	6	77	32			
92	121	-	5	76	-				92	121	61	5	76	-			
91	120	59	5	75	30				91	120	-	5	75	31			
90	119	-	4	74	29				90	119	60	4	74	30			
88	118	58	4	73	-				88	118	59	4	73	-			
87	117	57	3	72	28				87	117	-	3	72	29			
86	116	-	3	71	27				86	116	58	3	71	28			

Table A.4 continued on next page

Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued*

Tenth Grade, Fall									Tenth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	88-91	84	115	59	2	70	28	>99.9	160	89-91	84	115	61	2	70	-
>99.9	159	87	82	114	-	2	69	-	>99.9	159	88	82	114	-	2	69	29
>99.9	158	86	81	113	58	2	68	27	>99.9	158	-	81	113	60	2	68	28
>99.9	157	-	79	112	57	1	67	26	>99.9	157	87	79	112	59	1	67	27
>99.9	156	85	77	111	-	1	66	-	>99.9	156	86	77	111	-	1	66	-
>99.9	155	84	75	110	56	1	65	25	>99.9	155	-	75	110	58	1	65	26
>99.9	154	-	73	109	55	1	64	24	>99.9	154	85	73	109	57	1	64	25
>99.9	153	83	70	108	-	1	63	23	>99.9	153	84	70	108	-	1	63	24
>99.9	152	82	68	107	54	1	62	-	>99.9	152	-	68	107	56	1	62	-
>99.9	151	-	66	106	-	0.5	61	22	>99.9	151	83	66	106	-	0.5	61	23
>99.9	150	81	63	105	53	0.4	60	21	>99.9	150	-	63	105	55	0.4	60	22
99.9	149	-	61	104	52	0.3	59	-	99.9	149	82	61	104	54	0.3	59	21
99.9	148	80	58	103	-	0.3	58	20	99.9	148	81	58	103	-	0.3	58	-
99.9	147	79	55	102	51	0.2	57	19	99.9	147	-	55	102	53	0.2	57	20
99.9	146	-	53	101	50	0.2	56	-	99.9	146	80	53	101	-	0.2	56	19
99.9	145	78	50	100	-	0.1	55	18	99.9	145	-	50	100	52	0.1	55	18
99.8	144	77	47	99	49	0.1	54	17	99.8	144	79	47	99	51	0.1	54	-
99.8	143	-	45	98	48	0.1	53	16	99.8	143	78	45	98	50	0.1	53	17
99.7	142	76	42	97	-	0.1	52	-	99.7	142	-	42	97	-	0.1	52	16
99.7	141	-	39	96	47	0.1	51	15	99.7	141	77	39	96	49	0.1	51	15
99.6	140	75	37	95	46	<0.1	50	14	99.6	140	76	37	95	48	<0.1	50	-
99.5	139	74	34	94	-	<0.1	49	-	99.5	139	-	34	94	47	<0.1	49	14
99	138	-	32	93	45	<0.1	48	13	99	138	75	32	93	-	<0.1	48	13
99	137	73	30	92	44	<0.1	47	12	99	137	-	30	92	46	<0.1	47	12
99	136	72	27	91	43	<0.1	46	11	99	136	74	27	91	45	<0.1	46	-
99	135	-	25	90	-	<0.1	45	-	99	135	73	25	90	44	<0.1	45	11
99	134	71	23	89	42	<0.1	44	10	99	134	-	23	89	-	<0.1	44	10
99	133	-	21	88	41	<0.1	43	9	99	133	72	21	88	43	<0.1	43	9
98	132	70	19	87	-	<0.1	42	-	98	132	-	19	87	42	<0.1	42	-
98	131	69	18	86	40	<0.1	41	8	98	131	71	18	86	41	<0.1	41	8
98	130	-	16	85	39	<0.1	40	0-7	98	130	70	16	85	-	<0.1	40	0-7
97	129	68	14	84	38				97	129	-	14	84	40			
97	128	67	13	83	-				97	128	69	13	83	39			
96	127	-	12	82	37				96	127	-	12	82	38			
96	126	66	10	81	36				96	126	68	10	81	-			
95	125	-	9	80	-				95	125	67	9	80	37			
95	124	65	8	79	35				95	124	-	8	79	36			
94	123	64	7	78	34				94	123	66	7	78	-			
93	122	-	6	77	33				93	122	65	6	77	35			
92	121	63	5	76	-				92	121	-	5	76	34			
91	120	62	5	75	32				91	120	64	5	75	33			
90	119	-	4	74	31				90	119	-	4	74	-			
88	118	61	4	73	-				88	118	63	4	73	32			
87	117	-	3	72	30				87	117	62	3	72	31			
86	116	60	3	71	29				86	116	-	3	71	30			

**Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued***

Eleventh Grade, Fall									Eleventh Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	–	84	115	64	2	70	31	>99.9	160	–	84	115	–	2	70	32
>99.9	159	–	82	114	63	2	69	30	>99.9	159	–	82	114	66	2	69	31
>99.9	158	91	81	113	–	2	68	29	>99.9	158	–	81	113	–	2	68	–
>99.9	157	–	79	112	62	1	67	28	>99.9	157	–	79	112	65	1	67	30
>99.9	156	90	77	111	61	1	66	–	>99.9	156	–	77	111	64	1	66	29
>99.9	155	89	75	110	–	1	65	27	>99.9	155	–	75	110	–	1	65	28
>99.9	154	–	73	109	60	1	64	26	>99.9	154	–	73	109	63	1	64	27
>99.9	153	88	70	108	–	1	63	25	>99.9	153	91	70	108	62	1	63	–
>99.9	152	87	68	107	59	1	62	–	>99.9	152	90	68	107	–	1	62	26
>99.9	151	–	66	106	58	0.5	61	24	>99.9	151	–	66	106	61	0.5	61	25
>99.9	150	86	63	105	–	0.4	60	23	>99.9	150	89	63	105	60	0.4	60	24
99.9	149	–	61	104	57	0.3	59	22	99.9	149	88	61	104	–	0.3	59	23
99.9	148	85	58	103	56	0.3	58	21	99.9	148	–	58	103	59	0.3	58	22
99.9	147	84	55	102	–	0.2	57	–	99.9	147	87	55	102	–	0.2	57	–
99.9	146	–	53	101	55	0.2	56	20	99.9	146	–	53	101	58	0.2	56	21
99.9	145	83	50	100	54	0.1	55	19	99.9	145	86	50	100	57	0.1	55	20
99.8	144	82	47	99	–	0.1	54	18	99.8	144	85	47	99	56	0.1	54	19
99.8	143	–	45	98	53	0.1	53	17	99.8	143	–	45	98	–	0.1	53	18
99.7	142	81	42	97	52	0.1	52	–	99.7	142	84	42	97	55	0.1	52	17
99.7	141	80	39	96	51	0.1	51	16	99.7	141	83	39	96	54	0.1	51	–
99.6	140	–	37	95	50	<0.1	50	15	99.6	140	–	37	95	53	<0.1	50	16
99.5	139	79	34	94	–	<0.1	49	14	99.5	139	82	34	94	52	<0.1	49	15
99	138	–	32	93	49	<0.1	48	–	99	138	81	32	93	51	<0.1	48	14
99	137	78	30	92	48	<0.1	47	13	99	137	–	30	92	–	<0.1	47	13
99	136	77	27	91	47	<0.1	46	12	99	136	80	27	91	50	<0.1	46	12
99	135	–	25	90	–	<0.1	45	11	99	135	–	25	90	49	<0.1	45	–
99	134	76	23	89	46	<0.1	44	10	99	134	79	23	89	48	<0.1	44	11
99	133	75	21	88	45	<0.1	43	–	99	133	78	21	88	47	<0.1	43	10
98	132	–	19	87	44	<0.1	42	9	98	132	–	19	87	46	<0.1	42	9
98	131	74	18	86	43	<0.1	41	8	98	131	77	18	86	–	<0.1	41	8
98	130	73	16	85	–	<0.1	40	0–7	98	130	76	16	85	45	<0.1	40	0–7
97	129	–	14	84	42				97	129	–	14	84	44			
97	128	72	13	83	41				97	128	75	13	83	43			
96	127	–	12	82	40				96	127	74	12	82	42			
96	126	71	10	81	39				96	126	–	10	81	41			
95	125	70	9	80	–				95	125	73	9	80	–			
95	124	–	8	79	38				95	124	–	8	79	40			
94	123	69	7	78	37				94	123	72	7	78	39			
93	122	68	6	77	36				93	122	71	6	77	38			
92	121	–	5	76	–				92	121	–	5	76	37			
91	120	67	5	75	35				91	120	70	5	75	36			
90	119	66	4	74	34				90	119	69	4	74	–			
88	118	–	4	73	33				88	118	–	4	73	35			
87	117	65	3	72	32				87	117	68	3	72	34			
86	116	–	3	71	–				86	116	67	3	71	33			

Table A.4 continued on next page

**Table A.4. Grammaticality Judgment Raw Score to Standard Score Conversion by Grade (Updated) *continued***

Twelfth Grade, Fall									Twelfth Grade, Spring								
Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score	Per- centile	Standard score	Raw score
>99.9	160	–	84	115	70	2	70	34	>99.9	160	–	84	115	73	2	70	36
>99.9	159	–	82	114	69	2	69	33	>99.9	159	–	82	114	–	2	69	35
>99.9	158	–	81	113	–	2	68	32	>99.9	158	–	81	113	72	2	68	34
>99.9	157	–	79	112	68	1	67	31	>99.9	157	–	79	112	71	1	67	33
>99.9	156	–	77	111	–	1	66	–	>99.9	156	–	77	111	–	1	66	32
>99.9	155	–	75	110	67	1	65	30	>99.9	155	–	75	110	70	1	65	–
>99.9	154	–	73	109	66	1	64	29	>99.9	154	–	73	109	–	1	64	31
>99.9	153	–	70	108	–	1	63	28	>99.9	153	–	70	108	69	1	63	30
>99.9	152	–	68	107	65	1	62	27	>99.9	152	–	68	107	–	1	62	29
>99.9	151	–	66	106	64	0.5	61	26	>99.9	151	–	66	106	68	0.5	61	28
>99.9	150	–	63	105	–	0.4	60	25	>99.9	150	–	63	105	67	0.4	60	27
99.9	149	–	61	104	63	0.3	59	24	99.9	149	–	61	104	–	0.3	59	26
99.9	148	91	58	103	–	0.3	58	–	99.9	148	–	58	103	66	0.3	58	25
99.9	147	90	55	102	62	0.2	57	23	99.9	147	–	55	102	–	0.2	57	24
99.9	146	–	53	101	61	0.2	56	22	99.9	146	91	53	101	65	0.2	56	23
99.9	145	89	50	100	60	0.1	55	21	99.9	145	–	50	100	64	0.1	55	22
99.8	144	–	47	99	–	0.1	54	20	99.8	144	90	47	99	63	0.1	54	21
99.8	143	88	45	98	59	0.1	53	19	99.8	143	–	45	98	62	0.1	53	20
99.7	142	87	42	97	58	0.1	52	18	99.7	142	89	42	97	61	0.1	52	19
99.7	141	–	39	96	57	0.1	51	17	99.7	141	88	39	96	–	0.1	51	18
99.6	140	86	37	95	56	<0.1	50	16	99.6	140	–	37	95	60	<0.1	50	17
99.5	139	85	34	94	55	<0.1	49	–	99.5	139	87	34	94	59	<0.1	49	–
99	138	–	32	93	54	<0.1	48	15	99	138	–	32	93	58	<0.1	48	16
99	137	84	30	92	53	<0.1	47	14	99	137	86	30	92	57	<0.1	47	15
99	136	83	27	91	–	<0.1	46	13	99	136	–	27	91	56	<0.1	46	14
99	135	–	25	90	52	<0.1	45	12	99	135	85	25	90	55	<0.1	45	13
99	134	82	23	89	51	<0.1	44	11	99	134	84	23	89	54	<0.1	44	12
99	133	–	21	88	50	<0.1	43	10	99	133	–	21	88	53	<0.1	43	11
98	132	81	19	87	49	<0.1	42	9	98	132	83	19	87	52	<0.1	42	10
98	131	80	18	86	48	<0.1	41	–	98	131	–	18	86	51	<0.1	41	9
98	130	–	16	85	47	<0.1	40	0–8	98	130	82	16	85	50	<0.1	40	0–8
97	129	79	14	84	46				97	129	81	14	84	49			
97	128	78	13	83	–				97	128	–	13	83	48			
96	127	–	12	82	45				96	127	80	12	82	47			
96	126	77	10	81	44				96	126	–	10	81	46			
95	125	76	9	80	43				95	125	79	9	80	–			
95	124	–	8	79	42				95	124	–	8	79	45			
94	123	75	7	78	41				94	123	78	7	78	44			
93	122	–	6	77	40				93	122	77	6	77	43			
92	121	74	5	76	39				92	121	–	5	76	42			
91	120	73	5	75	38				91	120	76	5	75	41			
90	119	–	4	74	–				90	119	–	4	74	40			
88	118	72	4	73	37				88	118	75	4	73	39			
87	117	71	3	72	36				87	117	74	3	72	38			
86	116	–	3	71	35				86	116	–	3	71	37			

**Table A.6.** Grade Equivalents of Grammaticality Judgment Raw Scores (Updated)

Grade	Raw score
< Start grade	0–12
K Fall	13–16
K Spring	17–20
1 Fall	21–23
1 Spring	24–26
2 Fall	27–28
2 Spring	29–30
3 Fall	31–32
3 Spring	33–34
4 Fall	35–36
4 Spring	37
5 Fall	38
5 Spring	39
6 Fall	40
6 Spring	41
7 Fall	42
7 Spring	43
8 Fall	44
8 Spring	45
9 Fall	46
9 Spring	47–48
10 Fall	49–50
10 Spring	51–52
11 Fall	53–55
11 Spring	56–58
12 Fall	59–61
12 Spring	62–64
>12	65–91

**Table 3.3.** Ages Associated With 90% Passing Rates for Each Item on Grammaticality Judgment (Updated)

Item number	Age	Item number	Age
1	5–0 to 5–11	30	16–0 to 18–11
2	6–0 to 6–5	31	16–0 to 18–11
3	6–0 to 6–5	32	16–0 to 18–11
4	6–6 to 6–11	33	19–0 to 21–11
5	7–0 to 7–5	34	19–0 to 21–11
6	7–0 to 7–5	35	19–0 to 21–11
7	7–6 to 7–11	36	19–0 to 21–11
8	8–0 to 8–5	37	19–0 to 21–11
9	8–0 to 8–5	38	19–0 to 21–11
10	8–6 to 8–11	39	19–0 to 21–11
11	8–6 to 8–11	40	19–0 to 21–11
12	9–0 to 9–11	41	>21–11
13	9–0 to 9–11	42	>21–11
14	10–0 to 10–11	43	>21–11
15	10–0 to 10–11	44	>21–11
16	10–0 to 10–11	45	>21–11
17	11–0 to 11–11	46	>21–11
18	11–0 to 11–11	47	>21–11
19	11–0 to 11–11	48	>21–11
20	11–0 to 11–11	49	>21–11
21	12–0 to 12–11	50	>21–11
22	12–0 to 12–11	51	>21–11
23	12–0 to 12–11	52	>21–11
24	13–0 to 13–11	53	>21–11
25	13–0 to 13–11	54	>21–11
26	14–0 to 14–11	55	>21–11
27	14–0 to 14–11	56	>21–11
28	15–0 to 15–11	57	>21–11
29	15–0 to 15–11		



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