

Administering the test items

Before administering the actual test items, it is essential to:

- 1) Read pages 5 to 10 of the Manual.
- 2) Use the training plates as directed (instructions are in the Testbook on the administrator's side of the training plates).

Where to start the test

For a subject assumed to be of average ability, find the set corresponding with the student's age and begin the test with the first word in that set. In other circumstances consult the Manual. Once you begin a set, always administer every item in that set.

How to establish the Basal Set

The Basal Set is the set where no more than one error is made. Begin from the Start Set, according to age. If no more than one error is made, this set is the Basal Set. If more than one error is made, find the Basal Set by testing backwards through preceding sets until no more than one error is made in a set.

How to establish the Ceiling Set

Only after the Basal Set has been established, test forward by sets until eight or more responses are wrong in a set of 12 items. This is the Ceiling Set. (Do not re-test previously administered sets which were used when establishing the Basal Set).

How to record the responses and errors

As shown below, record the student's responses for each item administered in the 'Response given' column. If the response is incorrect draw an oblique line through the adjacent circle. Otherwise, leave it blank. Use the abbreviations DK for Don't Know and NR for No Response.

E.g.:

12	money	(3)	4	Ø
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Upon completion of each set, record the number of wrong responses in the space provided.

REMEMBER THESE RULES:

- Once a set is started, always administer *all 12 items* in that set.
- The Basal Set rule is *one or no errors* in a set.
- The Ceiling Set rule is *eight or more errors* in a set.

Set 1	Start – Ages 2-3	Correct response	Response given
1	ball	(3)	○
2	duck	(3)	○
3	mouth	(1)	○
4	jumping	(3)	○
5	spoon	(1)	○
6	circle	(4)	○
7	drinking	(1)	○
8	cat	(2)	○
9	apple	(4)	○
10	blue	(2)	○
11	swimming	(4)	○
12	money	(3)	○
			No. of errors

Set 2	Start – Age 4	Correct response	Response given
13	toe	(4)	○
14	fire	(1)	○
15	aeroplane	(1)	○
16	tortoise	(1)	○
17	belt	(3)	○
18	farmer	(3)	○
19	thumb	(1)	○
20	castle	(2)	○
21	empty	(2)	○
22	fence	(3)	○
23	tunnel	(2)	○
24	happy	(3)	○
			No. of errors

Set 14		Correct response	Response given
157	fowl (faul)	(4)	<input type="radio"/>
158	encumbered (en-kum-buhd)	(3)	<input type="radio"/>
159	castor (kah-stuh)	(3)	<input type="radio"/>
160	bovine (boh-viyn)	(1)	<input type="radio"/>
161	replenishing (re-plen-ish-ing)	(3)	<input type="radio"/>
162	convex (con-veks)	(1)	<input type="radio"/>
163	embossed (em-bosd)	(2)	<input type="radio"/>
164	incarcerating (in-kah-suh-rayt-ing)	(2)	<input type="radio"/>
165	copious (koh-pee-uhs)	(2)	<input type="radio"/>
166	incandescent (in-kan-des-uhnt)	(4)	<input type="radio"/>
167	lacrimation (la-kri-may-shuhn)	(1)	<input type="radio"/>
168	apparel (a-pa-ruhll)	(4)	<input type="radio"/>
			No. of errors

Pronunciation Key
a = short a as in man
e = short e as in leg
i = short i as in bit
o = short o as in dog
u = short u as in bun
ah as in car
au as in out
ay = long a as in day
ee = long e as in feet
iy = long i as in vine
oh = long o as in road
oo = long u as in soup
uh as in father
uhr as in circle

Calculating the raw score

Record the number of the Ceiling Item, which is the last item in the Ceiling Set. Subtract from it the total number of errors made by the student from the Basal Set through to the Ceiling Set. This is the raw score.

Ceiling Item _____

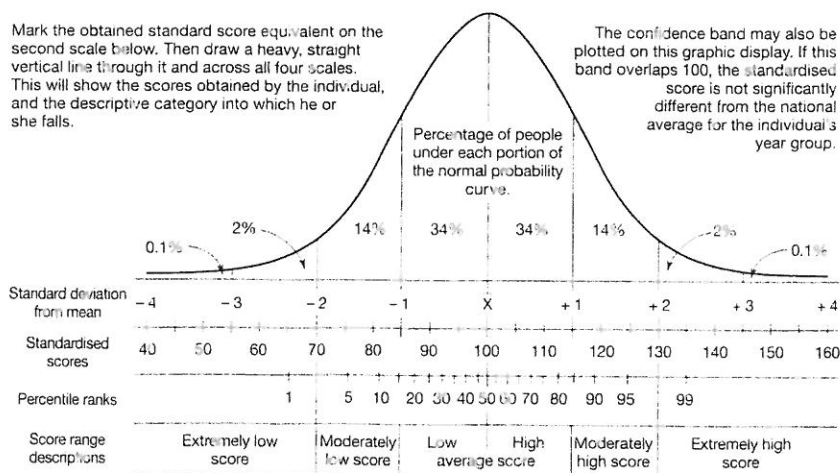
minus error _____

Raw score 

Graphic Display of Test Results

Mark the obtained standard score equivalent on the second scale below. Then draw a heavy, straight vertical line through it and across all four scales. This will show the scores obtained by the individual, and the descriptive category into which he or she falls.

The confidence band may also be plotted on this graphic display. If this band overlaps 100, the standardised score is not significantly different from the national average for the individual's year group.



Set 14		Correct response	Response given
157	fowl (faul)	(4)	<input type="radio"/>
158	encumbered (en-kum-buhd)	(3)	<input type="radio"/>
159	castor (kah -stuh)	(3)	<input type="radio"/>
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161	replenishing (re- plen -ish-ing)	(3)	<input type="radio"/>
162	convex (con -veks)	(1)	<input type="radio"/>
163	embossed (em- bosd)	(2)	<input type="radio"/>
164	incarcerating (in- kah -suh-rayt-ing)	(2)	<input type="radio"/>
165	copious (koh -pee-uhs)	(2)	<input type="radio"/>
166	incandescent (in-kan- des -uhnt)	(4)	<input type="radio"/>
167	lacrimation (la-kri- may -shuhn)	(1)	<input type="radio"/>
168	apparel (a- pa -ruhll)	(4)	<input type="radio"/>
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ah as in <u>car</u>
au as in out
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iy = long i as in vine
oh = long o as in road
oo = long u as in soup
uh as in <u>father</u>
uhr as in <u>circle</u>

Calculating the raw score

Record the number of the Ceiling Item, which is the last item in the Ceiling Set. Subtract from it the total number of errors made by the student from the Basal Set through to the Ceiling Set. This is the raw score.

Ceiling Item _____

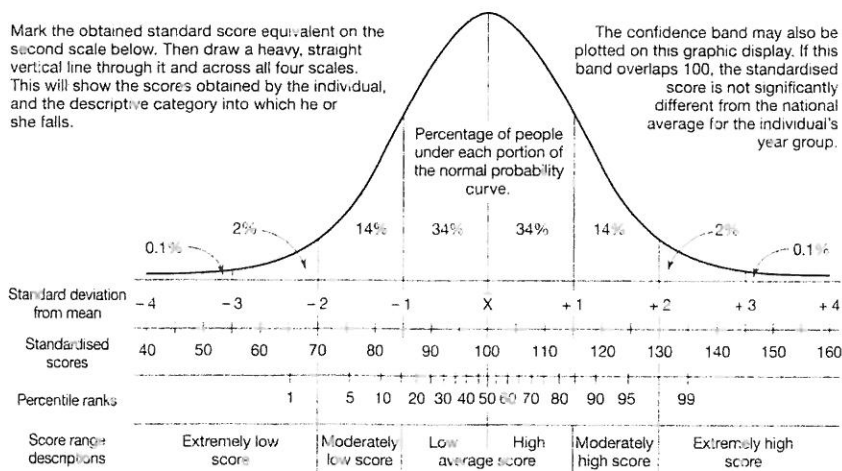
minus error _____

Raw score 

Graphic Display of Test Results

Mark the obtained standard score equivalent on the second scale below. Then draw a heavy, straight vertical line through it and across all four scales. This will show the scores obtained by the individual, and the descriptive category into which he or she falls.

The confidence band may also be plotted on this graphic display. If this band overlaps 100, the standardised score is not significantly different from the national average for the individual's year group.



Results from other tests

Test	Date	Results

Additional information:

Performance Evaluation

Notes and observations

For example, briefly describe the student's test behaviour, such as interest in the task, speed of response, signs of perseveration (repetition of same response to different items), work habits, disabilities, etc.

Do you believe the performance of this student represents fairly his/her true ability in this area?

Yes No

If not, give reasons.

In testing this student, I certify that I used an original record form, not an illegal reproduction.

_____ (Administrator's printed name)

_____ (Administrator's signature)

Norm Table A: Conversion of raw scores to standardised scores

Age Raw Score	3:00- 3:02	3:03- 3:05	3:06- 3:08	3:09- 3:11	4:00- 4:02	4:03- 4:05	4:06- 4:08	4:09- 4:11	5:00- 5:02	5:03- 5:05	5:06- 5:08	5:09- 5:11	6:00- 6:02	6:03- 6:05	6:06- 6:08	6:09- 6:11	7:00- 7:02	7:03- 7:05	7:06- 7:08	7:09- 7:11	8:00- 8:02	8:03- 8:05	8:06- 8:08	8:09- 8:11	9:00- 9:02	9:03- 9:05	9:06- 9:08	9:09- 9:11	
0-20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
21	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
22	72	72	72	72	72	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
23	74	74	74	74	73	72	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
24	77	76	76	75	74	73	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
25	79	78	78	77	76	74	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
26	80	80	80	79	77	75	73	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
27	81	81	81	80	79	77	74	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
28	83	82	82	81	80	78	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
29	84	84	84	82	81	79	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
30	85	85	84	83	82	80	77	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
31	85	85	85	84	83	81	78	74	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
32	86	86	85	85	84	82	78	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
33	86	86	86	86	85	83	79	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
34	87	87	87	86	85	84	80	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
35	88	87	87	87	86	84	81	77	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
36	88	88	88	87	86	85	82	78	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
37	89	89	89	88	87	86	83	79	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
38	90	90	89	89	87	86	84	79	76	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
39	90	90	90	89	88	87	84	80	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
40	91	90	90	90	89	87	85	81	77	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
41	91	91	91	90	90	88	85	81	77	74	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
42	91	91	91	91	90	89	86	82	78	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
43	91	91	91	91	91	90	87	83	78	75	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
44	92	92	92	91	91	90	87	84	79	76	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
45	92	92	92	92	91	90	88	85	80	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
46	93	93	92	92	92	91	89	85	80	77	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
47	94	94	94	93	92	91	90	86	81	77	74	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
48	96	96	95	94	93	92	90	86	82	78	74	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
49	97	97	96	96	94	92	91	87	83	78	75	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
50	97	97	97	97	95	93	91	87	83	79	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
51	98	98	97	97	96	94	91	88	84	79	76	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
52	98	98	98	98	97	95	92	89	85	80	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
53	100	100	99	98	97	96	93	90	85	81	77	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
54	101	101	101	100	98	97	94	91	86	81	78	74	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
55	102	102	102	101	100	98	95	91	86	82	78	75	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

Norm Table A: Conversion of raw scores to standardised scores

Age Raw score	3:00- 3:02	3:03- 3:05	3:06- 3:08	3:09- 3:11	4:00- 4:02	4:03- 4:05	4:06- 4:08	4:09- 4:11	5:00- 5:02	5:03- 5:05	5:06- 5:08	5:09- 5:11	6:00- 6:02	6:03- 6:05	6:06- 6:08	6:09- 6:11	7:00- 7:02	7:03- 7:05	7:06- 7:08	7:09- 7:11	8:00- 8:02	8:03- 8:05	8:06- 8:08	8:09- 8:11	9:00- 9:02	9:03- 9:05	9:06- 9:08	9:09- 9:11	
56	103	103	102	102	101	98	96	91	87	83	79	75	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
57	103	103	103	103	102	100	97	92	88	84	79	76	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
58	104	104	103	103	103	101	97	93	89	84	80	77	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
59	106	106	105	104	103	102	98	94	90	85	81	77	74	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
60	107	107	106	106	104	103	100	95	90	86	82	78	74	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
61	107	107	107	107	106	103	101	96	91	86	82	78	75	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
62	109	108	108	108	107	104	102	97	91	87	83	79	76	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
63	110	110	110	109	108	106	103	97	92	87	84	80	76	73	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
64	111	111	111	110	109	107	103	98	93	88	85	81	77	74	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
65	112	112	111	111	110	108	104	100	94	89	85	82	78	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70
66	112	112	112	112	111	109	106	101	95	90	86	83	79	76	73	71	71	71	71	71	71	71	71	71	71	71	71	71	71
67	114	113	113	112	111	110	107	102	95	91	86	83	79	76	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70
68	116	116	115	113	112	111	108	103	96	91	87	84	80	77	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70
69	117	116	116	115	113	111	109	103	97	92	88	85	81	78	75	73	71	70	70	70	70	70	70	70	70	70	70	70	70
70	117	117	117	116	115	112	110	104	99	93	89	86	82	79	76	74	72	71	70	70	70	70	70	70	70	70	70	70	70
71	118	118	117	117	116	113	110	106	100	94	90	86	84	79	77	75	73	72	71	70	70	70	70	70	70	70	70	70	70
72	119	118	118	117	116	114	111	108	101	94	90	87	85	81	78	76	74	73	72	71	70	70	70	70	70	70	70	70	70
73	119	119	119	118	117	115	111	108	102	95	91	87	85	82	79	77	75	74	73	72	71	70	70	70	70	70	70	70	70
74	120	120	119	119	118	116	112	109	102	96	92	88	86	83	80	78	76	75	74	73	71	70	70	70	70	70	70	70	70
75	120	120	120	119	118	117	113	109	103	97	92	89	86	84	81	79	77	76	75	74	72	71	70	70	70	70	70	70	70
76	121	121	121	120	119	117	114	110	104	98	93	90	87	85	82	80	78	77	76	75	73	71	70	70	70	70	70	70	70
77	122	121	121	121	120	118	114	110	106	100	94	91	88	86	84	81	79	78	77	76	74	72	70	70	70	70	70	70	70
78	122	122	122	121	120	118	115	111	107	101	95	91	89	87	85	82	80	79	78	77	75	73	71	70	70	70	70	70	70
79	123	122	122	122	121	119	116	112	108	102	95	92	90	87	86	83	81	80	79	78	76	74	72	70	70	70	70	70	70
80	123	123	123	122	121	120	117	112	109	102	96	93	90	88	86	84	82	80	80	79	77	75	73	71	70	70	70	70	70
81	124	124	123	123	122	120	117	113	109	103	98	94	91	89	87	85	83	81	80	80	78	76	74	72	70	70	70	70	70
82	124	124	124	123	123	121	118	113	109	104	100	94	92	90	88	86	84	82	81	80	79	77	75	73	71	70	70	70	70
83	125	125	124	124	123	122	119	114	110	105	100	95	92	90	89	87	84	83	81	80	79	77	75	73	71	70	70	70	70
84	125	125	125	124	124	122	119	115	110	107	101	96	93	91	89	88	85	83	82	81	80	79	77	75	73	71	70	70	70
85	126	126	125	125	124	123	120	115	111	108	102	97	94	92	90	88	86	84	83	82	81	80	79	77	75	73	71	70	70
86	126	126	126	125	125	123	121	116	111	108	103	99	95	92	91	89	87	85	83	82	81	80	79	77	75	73	71	70	70
87	127	127	126	126	125	124	121	116	112	109	104	100	96	93	91	90	88	86	84	83	82	81	80	79	77	75	73	71	70
88	127	127	127	127	126	124	122	117	113	109	105	101	96	94	92	91	89	87	84	83	82	81	80	79	77	75	73	71	70
89	128	128	128	127	126	125	122	118	113	109	106	102	98	95	93	92	90	88	85	84	83	82	81	80	79	77	75	73	71
90	128	128	128	128	127	125	123	119	114	110	107	102	99	96	94	92	91	89	87	84	83	82	81	80	79	77	75	73	71
91	129	129	129	128	127	126	123	119	114	110	108	103	100	97	95	93	92	90	89	88	85	84	82	80	78	76	74	72	70

Norm Table A: Conversion of raw scores to standardised scores

Age Raw score	3:00- 3:02	3:03- 3:05	3:06- 3:08	3:09- 3:11	4:00- 4:02	4:03- 4:05	4:06- 4:08	4:09- 4:11	5:00- 5:02	5:03- 5:05	5:06- 5:08	5:09- 5:11	6:00- 6:02	6:03- 6:05	6:06- 6:08	6:09- 6:11	7:00- 7:02	7:03- 7:05	7:06- 7:08	7:09- 7:11	8:00- 8:02	8:03- 8:05	8:06- 8:08	8:09- 8:11	9:00- 9:02	9:03- 9:05	9:06- 9:08	9:09- 9:11	
92	130	129	129	129	128	126	124	120	115	111	108	104	101	98	96	94	93	91	89	86	84	83	80	74	***	***	***	***	
93	130	130	129	129	128	127	124	121	115	112	109	105	102	99	97	95	94	92	90	87	85	83	81	75	***	***	***	***	
94	131	130	130	129	129	127	125	121	115	113	109	106	103	99	98	96	95	93	91	89	86	84	81	76	70	***	***	***	***
95	131	131	130	129	128	126	124	122	116	113	109	107	104	100	98	97	96	94	93	90	87	84	82	77	71	***	***	***	***
96	132	131	131	130	129	126	124	122	117	113	110	108	105	102	99	98	96	95	94	92	89	85	82	78	72	***	***	***	***
97	132	132	132	131	129	127	125	123	118	114	110	108	106	103	100	98	97	96	95	94	91	86	83	79	73	***	***	***	***
98	133	133	132	132	130	127	124	121	118	114	111	109	106	104	101	99	98	97	96	95	93	87	83	80	74	71	70	70	70
99	133	133	133	132	130	128	124	121	119	114	113	109	107	105	102	100	98	97	96	95	94	89	84	80	75	72	71	71	71
100	134	134	133	133	131	128	125	121	120	115	113	110	108	105	103	100	99	98	97	96	95	91	84	81	76	73	72	72	72
101	134	134	134	133	132	130	129	125	121	116	114	111	109	107	105	103	100	98	97	97	95	93	84	81	77	75	74	73	73
102	135	135	134	134	133	132	130	126	121	116	114	111	109	107	105	103	101	99	98	97	96	94	85	82	78	76	75	74	74
103	135	135	135	134	134	132	130	127	122	117	114	113	109	107	106	103	102	100	99	98	97	95	87	82	79	77	76	75	75
104	136	136	135	135	134	133	131	127	123	117	114	113	110	108	106	104	103	101	99	98	98	95	88	83	80	78	77	76	76
105	136	136	136	136	135	133	131	128	123	118	115	113	111	109	107	105	103	102	100	99	99	98	96	90	83	80	79	78	77
106	137	137	137	136	135	134	132	128	124	119	115	114	113	109	107	106	104	103	102	100	100	98	92	84	81	80	79	78	78
107	137	137	137	136	135	132	129	125	120	115	114	111	110	108	107	105	103	102	101	100	99	97	93	84	81	80	79	78	78
108	138	138	138	137	136	135	133	130	125	121	116	115	114	112	109	107	106	104	103	102	100	98	94	85	82	81	80	80	80
109	139	138	138	137	136	133	130	126	122	117	115	114	113	109	108	107	105	103	103	103	101	99	95	86	82	81	81	80	80
110	139	139	138	137	136	134	132	128	124	119	115	114	113	109	108	107	106	104	103	103	102	100	96	87	83	82	81	81	81
111	140	139	139	138	137	135	132	129	125	120	119	116	115	114	113	109	108	107	106	104	103	100	96	88	83	82	81	81	81
112	140	140	139	138	137	135	132	128	124	121	118	117	115	114	113	109	108	107	106	104	103	100	96	88	83	82	81	81	81
113	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	97	89	84	83	82	82	82
114	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	98	91	84	83	83	83	83
115	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	99	92	85	84	83	83	83
116	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	100	94	86	84	84	83	83
117	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	101	95	87	85	84	84	84
118	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	102	96	88	86	85	84	84
119	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	103	97	89	86	86	85	85
120	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	103	98	91	87	86	86	86
121	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	99	92	88	87	86	86
122	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87
123	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87
124	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87
125	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87
126	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87
127	140	140	140	139	138	136	133	129	125	122	121	118	115	114	113	109	108	108	107	106	104	102	104	100	94	89	88	87	87

Norm Table A: Conversion of raw scores to standardised scores

Age Raw score	3:00-3:02	3:03-3:05	3:06-3:08	3:09-3:11	4:00-4:02	4:03-4:05	4:06-4:08	4:09-4:11	5:00-5:02	5:03-5:05	5:06-5:08	5:09-5:11	6:00-6:02	6:03-6:05	6:06-6:08	6:09-6:11	7:00-7:02	7:03-7:05	7:06-7:08	7:09-7:11	8:00-8:02	8:03-8:05	8:06-8:08	8:09-8:11	9:00-9:02	9:03-9:05	9:06-9:08	9:09-9:11	
128	***	***	***	***	***	***	***	***	138	134	131	130	129	128	126	124	122	121	120	119	119	118	115	106	101	99	97	96	
129	***	***	***	***	***	***	***	***	139	135	132	130	129	128	127	124	123	121	120	120	120	119	116	106	102	100	98	97	
130	***	***	***	***	***	***	***	***	139	136	133	131	130	129	128	125	123	122	121	121	121	120	117	107	102	101	99	97	
131	***	***	***	***	***	***	***	***	140	136	134	132	131	130	128	126	124	122	122	121	121	121	118	108	103	101	100	99	
132	***	***	***	***	***	***	***	***	***	137	134	133	132	131	129	127	125	123	122	122	122	121	118	110	103	102	101	100	
133	***	***	***	***	***	***	***	***	***	138	135	133	132	132	130	127	125	124	123	122	122	122	119	112	104	102	101	101	
134	***	***	***	***	***	***	***	***	***	138	136	134	133	132	131	128	126	124	123	123	123	123	120	113	105	103	102	101	
135	***	***	***	***	***	***	***	***	***	139	136	135	134	133	131	129	127	125	124	124	124	123	121	114	106	103	102	101	
136	***	***	***	***	***	***	***	***	***	140	137	135	135	134	132	130	127	125	124	124	124	124	122	115	107	104	103	102	
137	***	***	***	***	***	***	***	***	***	140	138	136	135	135	133	130	128	126	125	125	125	124	122	116	107	105	104	103	
138	***	***	***	***	***	***	***	***	***	138	137	136	135	134	131	129	127	125	124	124	124	124	123	118	108	106	104	104	
139	***	***	***	***	***	***	***	***	***	139	137	137	136	135	132	129	127	125	124	126	126	125	123	119	110	107	105	105	
140	***	***	***	***	***	***	***	***	***	140	138	137	137	136	133	130	128	126	126	126	126	126	124	120	113	107	106	105	
141	***	***	***	***	***	***	***	***	***	140	139	138	138	138	135	133	130	128	127	127	127	127	125	121	114	108	107	106	
142	***	***	***	***	***	***	***	***	***	***	140	139	139	138	137	134	131	129	128	128	128	128	126	122	115	109	108	107	
143	***	***	***	***	***	***	***	***	***	***	140	140	140	139	138	135	132	130	128	128	128	128	127	125	122	115	111	109	108
144	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	128	128	128	127	125	122	115	111	109	108
145	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
146	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
147	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
148	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
149	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
150	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
151	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
152	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
153	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
154	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
155	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
156	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
157	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
158	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
159	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
160	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
161	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
162	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108
163	***	***	***	***	***	***	***	***	***	***	140	140	140	140	139	136	133	130	128	129	129	129	128	126	122	115	111	109	108

Norm Table A: Conversion of raw scores to standardised scores

Age Raw score	3:00- 3:02	3:03- 3:05	3:06- 3:08	3:09- 3:11	4:00- 4:02	4:03- 4:05	4:06- 4:08	4:09- 4:11	5:00- 5:02	5:03- 5:05	5:06- 5:08	5:09- 5:11	6:00- 6:02	6:03- 6:05	6:06- 6:08	6:09- 6:11	7:00- 7:02	7:03- 7:05	7:06- 7:08	7:09- 7:11	8:00- 8:02	8:03- 8:05	8:06- 8:08	8:09- 8:11	9:00- 9:02	9:03- 9:05	9:06- 9:08	9:09- 9:11
164	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	140	139	139	139	139	139	139	138	136	134
165	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	140	139	139	139	139	139	139	137	135
166	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	140	140	140	140	140	140	140	138	136
167	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	140	140	140	140	140	140	139	138
168	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	139+

Norm Table A: Conversion of raw scores to standardised scores

Age	10:00-10:02	10:03-10:05	10:06-10:08	10:09-10:11	11:00-11:02	11:03-11:05	11:06-11:08	11:09-11:11	12:00-12:02	12:03-12:05	12:06-12:08	12:09-12:11	13:00-13:02	13:03-13:05	13:06-13:08	13:09-13:11	14:00-14:02	14:03-14:05	14:06-14:08	14:09-14:11	15:00-15:02	15:03-15:05	15:06-15:08	15:09-15:11	16:00-16:02	16:03-16:05	16:06-16:08	16:09-16:11										
Raw Score	0-98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133		
Standardised Score	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

Norm Table A: Conversion of raw scores to standardised scores

Age Raw score	10:00- 10:02	10:03- 10:05	10:06- 10:08	10:09- 10:11	11:00- 11:02	11:03- 11:05	11:06- 11:08	11:09- 11:11	12:00- 12:02	12:03- 12:05	12:06- 12:08	12:09- 12:11	13:00- 13:02	13:03- 13:05	13:06- 13:08	13:09- 13:11	14:00- 14:02	14:03- 14:05	14:06- 14:08	14:09- 14:11	15:00- 15:02	15:03- 15:05	15:06- 15:08	15:09- 15:11	16:00- 16:02	16:03- 16:05	16:06- 16:08	16:09- 16:11
134	100	99	97	95	94	92	90	89	88	87	86	85	85	85	85	85	85	85	84	83	82	81	79	78	78	78	78	78
135	101	100	98	96	95	93	92	90	89	88	87	86	86	86	86	86	86	86	85	84	83	81	80	79	78	78	78	78
136	102	101	99	97	96	94	93	91	90	89	88	87	87	87	87	87	87	86	85	84	82	81	80	79	79	79	79	79
137	102	102	100	98	97	95	94	93	91	90	89	88	88	88	88	88	87	86	85	84	83	82	81	80	80	80	80	80
138	103	102	101	100	98	96	95	94	93	91	90	89	89	89	89	89	88	87	86	85	84	83	82	81	81	81	81	81
139	104	103	102	101	99	97	96	95	94	93	92	91	91	91	91	91	90	88	87	86	85	84	83	82	82	82	82	82
140	105	104	103	101	100	98	97	96	95	94	93	93	93	93	93	92	89	88	87	86	85	84	83	83	83	83	83	83
141	106	105	104	102	101	100	98	97	96	95	94	94	94	94	94	93	89	88	88	88	87	86	85	84	84	84	84	84
142	107	106	105	103	102	101	99	98	97	96	96	96	96	96	96	95	90	89	88	87	87	86	85	85	85	85	85	85
143	107	107	106	104	103	102	101	100	99	98	97	97	97	97	97	96	92	89	88	88	88	87	86	86	86	86	86	86
144	108	108	106	105	104	103	102	101	100	99	99	98	98	98	98	97	94	90	89	89	88	88	87	87	87	87	87	87
145	109	108	107	106	105	104	103	102	101	100	99	99	99	99	99	98	95	91	89	89	88	88	88	88	88	88	88	88
146	110	109	108	107	106	105	104	103	102	101	101	101	101	100	100	99	96	93	90	89	89	89	89	89	89	89	89	89
147	112	110	109	108	107	106	105	105	104	103	102	102	102	102	102	101	100	97	94	92	90	90	90	90	90	90	90	90
148	113	112	110	109	108	107	106	106	105	104	104	104	104	104	104	103	101	98	96	93	92	91	91	91	91	91	91	91
149	114	113	112	110	109	108	107	107	106	106	106	106	106	106	106	105	103	100	97	95	93	92	92	92	92	92	92	92
150	115	114	113	111	110	109	108	108	107	107	107	107	107	107	107	105	101	98	96	94	94	94	94	94	94	94	94	94
151	117	115	114	113	111	110	110	109	109	109	109	108	108	108	108	106	102	99	98	98	96	96	96	96	96	96	96	96
152	118	117	115	114	113	112	111	111	111	111	110	110	110	110	110	108	104	101	99	98	97	97	97	97	97	97	97	97
153	120	118	116	115	114	113	113	113	113	113	113	112	112	112	112	109	106	102	100	99	98	98	98	98	98	98	98	98
154	121	119	118	116	115	114	114	114	114	114	114	114	114	114	114	111	107	103	101	100	99	99	99	99	99	99	99	99
155	122	121	119	117	116	115	115	115	115	115	115	115	115	115	115	113	109	105	103	102	101	101	100	100	100	100	100	100
156	123	122	121	119	118	117	117	117	117	117	117	117	117	117	117	114	110	107	105	103	102	102	102	102	102	102	102	102
157	125	123	122	120	119	118	118	118	118	118	118	118	118	118	118	116	112	108	106	104	104	104	103	103	103	103	103	103
158	126	125	123	122	121	120	120	120	120	120	120	120	120	120	120	118	114	110	108	107	106	106	105	105	105	105	105	105
159	127	126	125	124	122	122	122	122	121	121	121	121	121	121	121	119	115	112	109	108	108	107	107	107	107	107	107	107
160	128	127	126	125	124	124	124	124	123	123	123	123	123	123	123	121	117	113	111	110	109	109	108	108	108	108	108	108
161	129	128	128	127	126	126	126	126	125	125	125	125	125	125	125	123	119	114	113	111	111	111	110	110	110	110	110	110
162	131	130	129	129	128	128	128	128	128	127	127	127	127	127	127	125	121	116	114	113	113	112	112	112	112	112	112	112
163	132	131	131	130	130	130	130	130	130	129	129	129	129	129	129	127	123	119	115	114	114	114	114	114	114	114	114	114
164	133	132	132	132	132	132	132	132	132	131	131	131	131	131	131	128	125	121	118	116	116	116	116	116	116	116	116	116
165	134	134	133	133	133	133	133	133	133	133	133	133	133	133	132	130	127	124	121	118	118	118	118	118	118	118	118	118
166	135	135	135	135	135	135	135	135	135	135	135	135	135	135	134	132	130	126	124	121	121	121	121	121	121	121	121	121
167	137	136	136	136	136	136	136	136	136	136	136	136	136	136	136	134	132	129	127	125	125	124	124	124	124	124	124	124
168	138+	137+	137+	137+	137+	137+	137+	137+	137+	137+	137+	137+	137+	137+	137+	136+	134	132	129	127	125	125	124	124	124	124	124	124

Norm Table B: Conversion of standardised scores to percentile ranks

Standardised score	Percentile rank
139+	99+
133-138	99
130-132	98
128-129	97
127-126	96
125	95
124-123	94
122	93
121	92
120	91
119	90
118	89
117	87
116	86
115	84
114	82
113	80
112	78
111	77
110	74
109	72
108	70
107	68
106	66
105	63
104	60
103	58
102	55
101	52

Standardised score	Percentile rank
100	50
99	48
98	45
97	42
96	40
95	37
94	34
93	32
92	30
91	28
90	26
89	24
88	22
87	20
86	18
85	16
84	14
83	13
82	12
81	11
80	9
79	8
78	7
77-76	6
75	5
74-73	4
72-71	3
70	2

Norm Table C: Age equivalents associated with each raw score together with 95% confidence bands

Raw score	Age equivalent		Lower limit		Upper limit	
	years	months	years	months	years	months
53-						
54	3	9			4	7
55	4	0			4	8
56	4	1			4	8
57	4	3			4	9
58	4	4			4	10
59	4	5			4	10
60	4	6			4	10
61	4	7	2	11	4	11
62	4	7	3	9	4	11
63	4	8	4	0	5	0
64	4	8	4	1	5	0
65	4	9	4	3	5	1
66	4	10	4	4	5	1
67	4	10	4	5	5	2
68	4	10	4	6	5	2
69	4	11	4	7	5	3
70	4	11	4	7	5	4
71	5	0	4	8	5	4
72	5	0	4	8	5	4
73	5	1	4	9	5	5
74	5	1	4	10	5	6
75	5	2	4	10	5	6
76	5	2	4	10	5	7
77	5	3	4	11	5	7
78	5	4	4	11	5	8
79	5	4	5	0	5	9
80	5	4	5	0	5	10
81	5	5	5	1	5	11
82	5	6	5	1	5	11
83	5	6	5	2	6	0
84	5	7	5	2	6	1
85	5	7	5	3	6	2
86	5	8	5	4	6	2
87	5	9	5	4	6	3
88	5	10	5	4	6	5
89	5	11	5	5	6	6
90	5	11	5	6	6	8
91	6	0	5	6	6	9
92	6	1	5	7	6	9
93	6	2	5	7	7	0
94	6	2	5	8	7	2
95	6	3	5	9	7	3
96	6	5	5	10	7	5
97	6	6	5	11	7	6
98	6	8	5	11	7	9
99	6	9	6	0	7	11
100	6	9	6	1	8	0
101	7	0	6	2	8	2
102	7	2	6	2	8	3
103	7	3	6	3	8	3
104	7	5	6	5	8	4

Raw score	Age equivalent		Lower limit		Upper limit	
	years	months	years	months	years	months
105	7	6	6	6	8	5
106	7	9	6	8	8	5
107	7	11	6	9	8	6
108	8	0	6	9	8	7
109	8	2	7	0	8	7
110	8	3	7	2	8	8
111	8	3	7	3	8	8
112	8	4	7	5	8	8
113	8	5	7	6	8	9
114	8	5	7	9	8	10
115	8	6	7	11	8	10
116	8	7	8	0	8	11
117	8	7	8	2	8	11
118	8	8	8	3	9	0
119	8	8	8	3	9	1
120	8	8	8	4	9	2
121	8	9	8	5	9	3
122	8	10	8	5	9	5
123	8	10	8	6	9	6
124	8	11	8	7	9	9
125	8	11	8	7	9	9
126	9	0	8	8	10	0
127	9	1	8	8	10	3
128	9	2	8	8	10	5
129	9	3	8	9	10	6
130	9	5	8	10	10	9
131	9	6	8	10	10	11
132	9	9	8	11	11	0
133	9	9	8	11	11	3
134	10	0	9	0	11	5
135	10	3	9	1	11	9
136	10	5	9	2	12	0
137	10	6	9	3	12	6
138	10	9	9	5	13	6
139	10	11	9	6	14	0
140	11	0	9	9	14	1
141	11	3	9	9	14	3
142	11	5	10	0	14	4
143	11	9	10	3	14	5
144	12	0	10	5	14	8
145	12	6	10	6	14	9
146	13	6	10	9	15	2
147	14	0	10	11	16	3
148	14	1	11	0		
149	14	3	11	3		
150	14	4	11	5		
151	14	5	11	9		
152	14	8	12	0		
153	14	9	12	6		
154	15	2	13	6		
155+	15	9	14	0		