

BIOMETRIC / IQ READY RECKONER BIOMETRIC INTELLIGENCE SCALE

Devised by Greg A. Grove, Ph.D., Msc.D.

Introduction

Dr. Max Freedom Long in his text *Psychometric Analysis* (DeVorss & Co., 1959) suggests an innovative approach to quantify two factors of human intelligence—memory and reasoning—using the pendulum and his biometric chart (included with the book). Based on prior research by Dr. Oscar Brunler, Long provides approximate levels of intellectual and occupational performance throughout chapter 10, in relation to various ranges, from 200 to 725 degrees biometric. However, nowhere in the text does Long recommend a mathematical formula to convert conventional IQs to biometric equivalents or vice versa. By applying descriptive statistics to Long's biometric classifications in relation to cognitive and occupational functioning, I propose the following:

- 1) To transform IQ 100 or **higher** to an equivalent biometric, use:
 $(X - \text{Mean}) \div 16, \text{ times } 80, \text{ plus } 250$, where X = the person's IQ, the Mean is the average IQ of the test population (e.g. 100), the Standard Deviation is 16, and the biometric average is 250 with a theoretical SD of 80. (Substitute 240 for 250 for individuals from undeveloped countries.) Round the answer to the nearest whole number.

Example: Joe, who attends high school in California, attained IQ 139 on the Stanford-Binet Intelligence Scale, Form L-M. Applying the formula above, you get $(139-100) \div 16, \text{ times } 80, \text{ plus } 250 = 445$ biometric.

- 2) To transform IQ's **below** 100 to an equivalent biometric, use:
 $(X-100) \div 16, \text{ times } 11, \text{ plus } 250$, where X is the person's IQ score - IQ 100, divided by 16 SD, times factor 11, plus 250 biometric. Round the answer to the nearest whole number.

Example: Linda, who is in a special class for the slow learner, has an IQ of 85. Thus, $(85-100) \div 16, \text{ times } 11, \text{ plus } 250 = 240$ biometric.

- 3) To determine an IQ equivalent of a known biometric (240) 250 or **higher**, use:
 $(X - 250) \text{ times } .2, \text{ plus } 100$, where X is the person's biometric minus 250, times factor .2, plus 100. Round to the nearest whole number.

Example: Lou is 367 biometric. Thus, $(367-250) \text{ times } .2, \text{ plus } 100 = \text{IQ } 123$ (M=100; SD = 16)

- 4) To determine an IQ equivalent of a known biometric **below** 250 (240) use:
 $(X - 250) \div 11, \text{ times } 16, \text{ plus } 100$, where X is the person's biometric reading minus 250 (the biometric average), divided by factor 11, times 16 SD, plus 100. Round to the nearest whole number.

Example: Jan is 241 biometric. Thus, $(241-250) \div 11, \text{ times } 16, \text{ plus } 100 = \text{IQ } 87$ (M=100; SD=16)

- 5) To determine a biometric reading based on any test result in which you know the Mean and Standard Deviation:
 - a. Take 80 and divide it by the SD of the test. This becomes the Factor number.
 - b. Then, use this formula:
 $(\text{Score} - \text{Mean}) \text{ times Factor, plus } 250 = \text{biometric}$

Example: Henry scores 29 right on a college entrance test in which the group average was 14 and the standard deviation was 13.6. Thus, $(29-14)$ times $(80/13.6 = 5.88$ Factor), plus 250 = biometric 338.2 or simply 338 rounded to the nearest whole number.

Biometric Intelligence Scale

Devised by G. A. Grove, Ph.D.

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Name: _____ Date of Test: _____ Age: _____

Address: _____
Street City State Zip

Home Phone: () _____ Work / Cell Phone: () _____

Highest Grade Completed: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20+
Elementary JrHigh H. S. Junior C. Bachelor's Master's Doctor's

Directions: You are to figure out which word or number does not belong and "X" it out. Take each line and work across the page, from left to right. Do each set in order; do not skip. Do not waste time on difficult items. Do the best you can and quickly go on to the next set. Your score is the number of correctly answered sets in 10 minutes. Ready? BEGIN!

boy	dog	cat	doll	rat
rock	mud	air	sand	dirt
lily	tree	bird	apple	egg
finger	leg	arm	toe	ear
16	11	4	8	2

has	his	hers	ours	its
lion	frog	tiger	dog	cow
20	6	15	18	4
fish	bird	crawl	hop	snake
up	from	down	to	around

right	in	came	out	left
please	tell	me	go	with
apple	peach	pear	beet	plum
will	could	can't	can	won't
which	why	high	down	under

worse	when	better	wrong	good
is	were	are	be	was
6	9	11	15	18
bread	sheep	fruit	meat	tree
this	them	those	that	these

get	give	got	gave	go
his	who	what	name	is
bark	stars	tree	leaf	nuts
above	off	under	on	in
come	go	stay	hop	run

too	that	a	also	an
you	kiss	will	no	me
we	can	you	they	is
help	we	them	chair	can
19	5	4	25	16

apple	grape	plum	cherry	pear
store	chalk	mother	teacher	child
sleep	skate	run	swim	jump
milk	ice	store	water	cream
teeth	jaws	ear	mouth	lips

29	27	14	30	23
big	ever	never	little	often
give	shoe	me	gave	your
head	hand	hair	arm	finger
19	9	14	8	11

-

Score: _____ IQ: _____ %ile: _____ MA: _____ GE: _____

-

Biometric / IQ Conversion Chart

Biometric*	IQ*8	Percentile/***	Rarity (1/x)	M.A.	Grade Equiv./ BIS raw score	Educational Class
190	13	---	---	---	---	Severe Retard (Trainable?)
191	14	---	---	---	---	
192	16	---	---	---	---	
193	17	---	---	---	---	
194	19	---	---	---	---	
195	20	---	3,500,000	---	---	Moderate Retard (Trainable)
196	21	---	2,500,000	---	---	
197	23	---	1,300,000	---	---	
198	24	---	1,000,000	---	---	
199	26	---	500,000	---	---	
200	27	---	400,000	---	---	
201	29	---	220,000	---	---	
202	30	---	160,000	---	---	
203	32	---	90,000	---	---	
204	33	---	70,000	---	--- /1	
205	35	---	40,000	---	---	
206	36	---	30,000	---	---	
207	37	---	24,000	---	---	
208	39	---	15,000	---	---	
209	40	---	11,000	---	--- /2	
210	42	---	7,000	---	---	
211	43	.01	5,000	---	---	
212	45	.03	3,400	---	--- /3	
213	46	.04	2,700	---	---	
214	48	.06	1,700	---	---	
215	49	.07	1,400	---	--- /4	

216	51	.11	900	8-3	3.0	Mild Retard (Educable)	
217	52	.13	700	8-5	3.1		
218	53	.17	600	8-6	3.2 /5		
219	55	.25	400	8-10	3.6		
220	56	.30	340	9-0	3.7 /6		
221	58	.43	230	9-4	4.1		
222	59	1	190	9-6	4.2		
223	61	1	140	9-10	4.6 /7		
224	62	1	110	9-11	4.7		
225	64	1	80	10-3	5.0 /8		
226	65	1	70	10-5	5.2	Borderline (Slow Learner)	
227	67	2	50	10-9	5.5 /9		
228	68	2	44	10-11	5.6		
229	69	3	38	11-1	5.8 /10		
230	71	4	29	11-5	6.1		
231	72	4	25	11-7	6.2 /11		
232	74	5	19	11-11	6.6		
233	75	6	17	12-0	6.7 /12		
234	77	8	13	12-4	7.0 /13		
235	78	8	12	12-6	7.2		
236	80	11	9.5	12-10	7.5 /14	Dull (Slow Learner)	
237	81	12	8.5	13-0	7.7		
238	83	14	6.9	13-4	8.0 /15		
239	84	16	6.3	13-6	8.2		
240	85	17	5.7	13-8	8.3 /16		
241	87	21	4.8	13-11	8.6		
242	88	23	4.4	14-1	8.7 /17		
243	90	27	3.8	14-5	9.0		
244	91	29	3.5	14-7	9.1 /18		
245	93	33	3.0	14-11	9.4		
246	94	35	2.8	15-1	9.6 /19	AVERAGE	
247	96	40	2.5	15-5	9.8		
248	97	43	2.3	15-7	10.0 /20		
249	99	48	2.1	15-11	10.2		
250	100	50	2.0	16-0	10.3 /21		
255	101	52	2.1	16-2	10.4		
260	102	55	2.2	16-4	10.5 /22		
265	103	57	2.3	16-6	10.7		
270	104	60	2.5	16-8	11.5		H.S. Grad
275	105	62	2.7	16-10	12.5 /23		
280	106	65	2.8	17-0	12.8		
285	107	67	3.0	17-2	13.0 /24		
290	108	69	3.2	17-4	13.2		
295	109	71	3.5	17-6	13.4		
300	110	73	3.8	17-8	13.6 /25		
305	111	75	4.1	17-10	13.8		
310	112	77 / -1	4.4	18-0	14.0		
315	113	79 / 1	4.8	18-2	14.3 /26		
320 - 113.9	114	81 / 2	5.2	18-3	14.5	2 yr. College Grad Bright Normal	
325 - 114.9	115	83 / 4	5.7	18-5	14.8		
330 - 115.8	116	84 / 5	6.3	18-7	15.0 /27	4 yr. College Grad	

335 - 116.8	117	86 / 8	6.9	18-9	15.5	
340 - 117.6	118	87 / 10	7.7	18-11	15.7 /28	Nasser
345 - 118.5	119	88 / 13	8.5	19-1	16.2	
350 - 119.4	120	89 / 21	9.5	19-3	16.5 /29	
355 - 120.3	121	90 / 27	11	19-5	16.6	Superior
360 - 121.2	122	92 / 29	12	19-7	16.7	
365 - 122.0	123	93 / 40	13	19-9	16.8 /30	Mao Tse-Tung
370 - 122.9	124	93 / 46	15	19-11	G50****	Khrushchev
375 - 123.8	125	94 / 50	17	20-1	G53	F. D. Roosevelt
380 - 124.6	126	95 / 55	19	20-2	G56 /31	
385 - 125.4	127	95 / 59	22	20-4	G60	Ph.D., M.D. ave.
390 - 126.3	128	96 / 67	25	20-6	G63	
395 - 127.1	129	96 / 68	29	20-8	G66	
400 - 127.9	130	97 / 71	33	20-10	G70 /32	
405 - 128.8	131	97 / 75	38	21-0	G72	
410 - 129.6	132	98 / 79	44	21-2	G75	Very Superior
415 - 130.4	133	98 / 80	50	21-4	G77 /33	Mensa
420 - 131.2	134	98 / 81	60	21-6	G80	
425 - 132.0	135	99 / 82	70	21-8	G83	Abe Lincoln
430 - 132.7	136	99 / 84	80	21-10	G86 /34	G. Washington
435 - 133.5	137	99 / 86	100	22-0	G89	
440 - 134.3	138	99.1 / 90	110	22-2	G90	
445 - 135.1	139	99.3 / 92	140	22-3	G91 /35	
450 - 135.8	140	99.4 / 93	160	22-5	G92	Near Genius
455 - 136.6	141	99.5 / 95	190	22-7	G93 /36	
460 - 137.4	142	99.6 / 97	230	22-9	G93	
465 - 138.1	143	99.6 / 99	280	22-11	G94	
470 - 138.8	144	99.7 / 99+	340	23-1	G94 /37	Thomas Edison
475 - 139.6	145	99.8	400	23-3	G95	
480 - 140.3	146	99.8	500	23-5	G95	
485 - 141.0	147	99.8	600	23-7	G95 /38	
490 - 141.8	148	99.9	700	23-9	G96	Madame Curie
495 - 142.5	149	99.9	900	23-11	G96	
500 - 143.2	150	99.91	1,100	24-1	G96 /39	Genius
505 - 143.9	151	99.93	1,400	24-2	G97	Emerson
510 - 144.6	152	99.94	1,700	24-4	G97	
515 - 145.3	153	99.95	2,200	24-6	G97	
520 - 146.0	154	99.96	2,700	24-8	G98 /40	
525 - 146.7	155	99.97	3,400	24-10	G98	Kipling
530 - 147.4	156	99.977	4,000	25-0	G99	
535 - 148.1	157	99.982	5,000	25-2	G99.2	Haydn, Liszt
540 - 148.7	158	99.986	7,000	25-4	G99.3	Charles Dickens
545 - 149.4	159	99.989	9,000	25-6	G99.4	
550 - 150.1	160	99.991	11,000	25-8	G99.5	Chopin
555 - 150.7	161	99.993	15,000	25-10	G99.6	
560 - 151.4	162	99.995	19,000	26-0	G99.7	
565 - 152.1	163	99.996	24,000	26-2	G99.8	
570 - 152.7	164	99.997	30,000	26-4	G99.9	
575 - 153.4	165	99.9976	40,000	26-5	G99.9+	
580 - 154.0	166	99.9981	50,000	26-6	---	

585 - 154.7	167	99.9986	70,000	26-9	----	
590 - 155.3	168	99.9989	90,000	27-0	----	
595 - 155.9	169	99.9992	120,000	27-1	----	
600 - 156.6	170	99.9994	160,000	27-3	----	
605 - 157.2	171	99.9995	220,000	27-4	----	
610 - 157.8	172	99.99966	300,000	27-6	----	
615 - 158.4	173	99.99975	400,000	27-8	----	
620 - 159.0	174	99.99981	500,000	27-10	----	
625 - 159.6	175	99.99986	700,000	28-0	----	
630 - 160.3	176	99.99990	1,000,000	28-2	----	
635 - 160.9	177	99.99993	1,300,000	28-4	----	Rembrandt
640 - 161.5	178	99.99995	1,800,000	28-6	----	
650 - 162.1	179	99.99996	2,500,000	28-8	----	
655 - 162.6	180	99.99997	3,500,000	28-10	----	
660 - 163.6	181	99.99998	5,000,000	29-0	----	Titian
665 - 163.8	182	99.999985	7,000,000	29-2	----	
670 - 164.4	183	99.999989	9,000,000	29-4	----	
675 - 165.0	184	99.999992	13,000,000	29-6	----	
680 - 165.6	185	99.999995	20,000,000	29-8	----	
685 - 166.1	186	99.999996	30,000,000	29-10	----	
670 - 166.7	187	99.999997	40,000,000	30-0	----	
675 - 167.3	188	99.999998	50,000,000	30-3	----	
680 - 167.9	189	99.9999987	80,000,000	30-6	----	
685 - 168.4	190	99.9999991	110,000,000	30-9	----	
690 - 169.0	191	99.9999994	150,000,000	31-0	----	
695 - 169.5	192	99.9999996	220,000,000	31-1	----	
700 - 170.1	193	99.9999997	300,000,000	31-3	----	
705 - 170.6	194	99.9999998	500,000,000	31-5	----	
710 - 171.2	195	99.99999985	700,000,000	31-6	----	
715 - 171.7	196	99.99999990	1,000,000,000	31-8	----	
720 - 172.3	197	99.99999993	1,500,000,000	31-9	----	
725 - 172.8	198	99.99999995	2,000,000,000	31-10	----	Da Vinci
730 - 173.4	199	99.99999997	3,000,000,000	31-11	----	
735 - 173.9	200	99.99999998	5,000,000,000	32-0	----	
740 - 174.4	201	99.999999986	7,000,000,000	32-2	----	
745 - 174.9	202	99.999999991	11,000,000,000	32-3	----	
750 - 175.5	203	99.999999994	15,000,000,000	32-5	----	
1000 - 197.7	250	---	---	---	---	Shroud of Turin

* M=100 SD=16

** IQ adjusted for Flynn Effect

* ** Huna Research Associates, The Huna Work, No. 66, November 2000

**** College Graduate Percentile Rank