



World Para Athletics Raza Point Scores 2017

Method to calculate the points for a specific performance is the Gompertz function:

$$G(p, a, b, c) = q = ae^{-e^{b-cp}}$$

To calculate the required performance for given points, the inverse Gompertz function is

$$G^{-1}(q, a, b, c) = p = \left(b - \ln \left(\ln \left(\frac{a}{q} \right) \right) \right) / c$$

with performance p (in metres), points q , and parameters a, b, c as given in the table below:

Event	Class	a	b (Men)	c (Men)	b (Women)	c (Women)	
Shot Put	F11	1200	3.897793	0.424242	3.220212	0.414699	
	F12	1200	3.897793	0.333782	3.220212	0.363750	
	F13	1200	3.897793	0.458119	3.220212	0.367030	
	F20	1200	3.897793	0.346718	3.220212	0.355373	
	F32	1200	3.159744	0.455840	3.165076	0.721419	
	F33	1200	3.159744	0.415949	3.165076	0.761672	
	F34	1200	3.159744	0.382002	3.165076	0.560645	
	F35	1200	3.897793	0.372168	3.220212	0.398309	
	F36	1200	3.897793	0.385570	3.220212	0.442874	
	F37	1200	3.897793	0.370596	3.220212	0.398831	
	F38	1200	3.897793	0.365132	3.220212	0.434462	
	F40	1200	3.897793	0.505532	3.220212	0.593312	
	F41	1200	3.897793	0.425131	3.220212	0.499529	
	F42	1200	3.897793	0.367859	3.220212	0.470492	
	F43/44	1200	3.897793	0.334021	3.220212	0.370150	
	F46	1200	3.897793	0.355358	3.220212	0.397814	
	F51	n/a	n/a	n/a	n/a	n/a	n/a
	F52	1200	3.159744	0.466656	3.165076	0.936469	
	F53	1200	3.159744	0.544493	3.165076	0.988598	
	F54	1200	3.159744	0.476068	3.165076	0.632691	
F55	1200	3.159744	0.399934	3.165076	0.594614		
F56	1200	3.159744	0.396382	3.165076	0.555063		
F57	1200	3.159744	0.340987	3.165076	0.457170		
Discus	F11	1200	3.180156	0.117154	2.818818	0.131048	
	F12	1200	3.180156	0.102316	2.818818	0.101941	
	F13	1200	3.180156	0.120233	2.818818	0.134741	
	F32	1200	2.570870	0.200158	2.579603	0.337472	
	F33	1200	2.570870	0.131084	2.579603	0.296217	
	F34	1200	2.570870	0.101414	2.579603	0.176946	
	F35	1200	3.180156	0.106061	2.818818	0.153488	
	F36	1200	3.180156	0.110057	2.818818	0.166855	
	F37	1200	3.180156	0.091263	2.818818	0.127037	
	F38	1200	3.180156	0.100103	2.818818	0.138203	
	F40	1200	3.180156	0.209680	2.818818	0.212581	
	F41	1200	3.180156	0.115541	2.818818	0.141138	
	F42	1200	3.180156	0.103273	2.818818	0.146457	
	F43/44	1200	3.180156	0.083791	2.818818	0.110631	
	F46	1200	3.180156	0.096650	2.818818	0.118252	
F51	1200	2.570870	0.345509	2.579603	0.371595		
F52	1200	2.570870	0.201750	2.579603	0.300935		



Discus (cont.)	F53	1200	2.570870	0.161848	2.579603	0.317697	
	F54	1200	2.570870	0.136694	2.579603	0.232017	
	F55	1200	2.570870	0.112427	2.579603	0.175737	
	F56	1200	2.570870	0.097512	2.579603	0.182661	
	F57	1200	2.570870	0.089841	2.579603	0.133420	
	Javelin	F11	1200	2.860934	0.089851	2.308544	0.143243
		F12	1200	2.860934	0.069668	2.308544	0.087818
F13		1200	2.860934	0.067017	2.308544	0.092496	
F33		1200	2.680727	0.177383	2.908378	0.330576	
F34		1200	2.680727	0.115406	2.908378	0.211222	
F35		1200	2.860934	0.107250	2.308544	0.154297	
F36		1200	2.860934	0.102252	2.308544	0.135727	
F37		1200	2.860934	0.090247	2.308544	0.119562	
F38		1200	2.860934	0.089327	2.308544	0.126217	
F40		1200	2.860934	0.126974	2.308544	0.178251	
F41		1200	2.860934	0.100701	2.308544	0.156033	
F42		1200	2.860934	0.085980	2.308544	0.127373	
F43/44		1200	2.860934	0.078012	2.308544	0.099451	
F46		1200	2.860934	0.078231	2.308544	0.094618	
F52		1200	2.680727	0.236830	2.908378	0.440449	
F53		1200	2.680727	0.193767	2.908378	0.373212	
F54		1200	2.680727	0.153477	2.908378	0.245324	
F55		1200	2.680727	0.141302	2.908378	0.237829	
F56		1200	2.680727	0.125646	2.908378	0.205928	
F57		1200	2.680727	0.100400	2.908378	0.194351	
Club Throw	F31	1200	2.989069	0.136338	2.816424	0.394302	
	F32	1200	2.989069	0.128880	2.816424	0.202971	
	F51	1200	2.989069	0.159987	2.816424	0.212966	
High Jump	T11	1200	8.059991	5.831338	n/a	n/a	
	T12	1200	8.059991	4.914539	n/a	n/a	
	T13	1200	8.059991	4.849207	n/a	n/a	
	T42	1200	8.059991	5.167017	n/a	n/a	
	T43/44	1200	8.059991	4.389641	n/a	n/a	
	T45-47	1200	8.059991	4.811008	n/a	n/a	
Long Jump	T11	1200	5.933913	1.165410	6.166317	1.623015	
	T12	1200	5.933913	1.045586	6.166317	1.269123	
	T13	1200	5.933913	1.071945	6.166317	1.344449	
	T20	1200	5.933913	1.062338	6.166317	1.405144	
	T35	1200	5.933913	1.784928	6.166317	2.128333	
	T36	1200	5.933913	1.334230	6.166317	1.784460	
	T37	1200	5.933913	1.194353	6.166317	1.643062	
	T38	1200	5.933913	1.139583	6.166317	1.585500	
	T42	1200	5.933913	1.148156	6.166317	1.794151	
	T43/44	1200	5.933913	1.064041	6.166317	1.367745	
	T45-47	1200	5.933913	1.074038	6.166317	1.328216	
	Triple Jump	T11	1200	10.532349	0.936031	n/a	n/a
T12		1200	10.532349	0.819043	n/a	n/a	
T13		1200	10.532349	0.897105	n/a	n/a	
T20		1200	10.532349	0.858125	n/a	n/a	
T42		1200	n/a	n/a	n/a	n/a	
T43/44		1200	n/a	n/a	n/a	n/a	
T45-47		1200	10.532349	0.843284	n/a	n/a	



Youth Point Scores 2017

For youth events, the formula as shown above does not change apart from an adjustment of the c factor to reflect the performance difference between the average performances at major international Para swimming competitions and the average of performances expected at youth events considering the senior weight implements.

Method to calculate the points for a specific performance remains the Gompertz function with an additional static factor applicable to all genders, events, and classes:

$$G(p, a, b, c) = q = ae^{-e^{b-\frac{c}{0.88}p}}$$

To calculate the required performance for given points, the inverse Gompertz function is

$$G^{-1}(q, a, b, c) = p = 0.88 \cdot \left(b - \ln \left(\ln \left(\frac{a}{q} \right) \right) \right) / c$$

with performance p (in seconds), points q , and parameters a, b, c as listed on pages 1-2 in this document.