



World Para Athletics Raza Point Scores 2018

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	
F61	1200	3.897793	0.367859	3.220212	0.470492		
F62	1200	3.897793	0.334021	3.220212	0.370150		
F63	1200	3.897793	0.367859	3.220212	0.470492		
F64	1200	3.897793	0.334021	3.220212	0.370150		
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	



Discus (cont.)	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
	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
	F61	1200	3.180156	0.103273	2.818818	0.146457
	F62	1200	3.180156	0.083791	2.818818	0.110631
	F63	1200	3.180156	0.103273	2.818818	0.146457
	F64	1200	3.180156	0.083791	2.818818	0.110631
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
	F61	1200	2.860934	0.085980	2.308544	0.127373
	F62	1200	2.860934	0.078012	2.308544	0.099451
	F63	1200	2.860934	0.085980	2.308544	0.127373
	F64	1200	2.860934	0.078012	2.308544	0.099451
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
	T61	1200	8.059991	5.167017	n/a	n/a
	T62	1200	8.059991	4.389641	n/a	n/a
	T63	1200	8.059991	5.167017	n/a	n/a
	T64	1200	8.059991	4.389641	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
T61	1200	5.933913	1.148156	6.166317	1.794151
T62	1200	5.933913	1.064041	6.166317	1.367745
T63	1200	5.933913	1.148156	6.166317	1.794151
T64	1200	5.933913	1.064041	6.166317	1.367745
Triple Jump	T11	1200	10.532349	0.936031	n/a
	T12	1200	10.532349	0.819043	n/a
	T13	1200	10.532349	0.897105	n/a
	T20	1200	10.532349	0.858125	n/a
	T42	1200	n/a	n/a	n/a
	T43/44	1200	n/a	n/a	n/a
	T45-47	1200	10.532349	0.843284	n/a
	T61	1200	n/a	n/a	n/a
	T62	1200	n/a	n/a	n/a
	T63	1200	n/a	n/a	n/a
	T64	1200	n/a	n/a	n/a

Youth Point Scores 2018

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 athletics 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 1-3 in this document.