



World Para Athletics Raza Point Scores 2021

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	3.877517	0.416484	2.986498	0.316457	
	F12	1200	3.877517	0.331111	2.986498	0.342821	
	F13	1200	3.877517	0.432261	2.986498	0.363291	
	F20	1200	3.877517	0.331200	2.986498	0.333756	
	F32	1200	3.114028	0.437054	3.071658	0.672851	
	F33	1200	3.114028	0.407640	3.071658	0.708879	
	F34	1200	3.114028	0.387537	3.071658	0.553475	
	F35	1200	3.877517	0.346270	2.986498	0.38413	
	F36	1200	3.877517	0.372512	2.986498	0.415717	
	F37	1200	3.877517	0.373891	2.986498	0.382482	
	F38	1200	3.877517	0.360169	2.986498	0.411337	
	F40	1200	3.877517	0.496805	2.986498	0.562954	
	F41	1200	3.877517	0.411921	2.986498	0.489331	
	F42	1200	3.877517	0.365998	2.986498	0.454527	
	F43/44	1200	3.877517	0.341716	2.986498	0.346054	
	F46	1200	3.877517	0.344046	2.986498	0.383996	
	F51	n/a	n/a	n/a	n/a	n/a	n/a
	F52	1200	3.114028	0.469393	3.071658	0.848753	
	F53	1200	3.114028	0.537476	3.071658	0.925011	
	F54	1200	3.114028	0.474458	3.071658	0.603221	
F55	1200	3.114028	0.396368	3.071658	0.589441		
F56	1200	3.114028	0.397033	3.071658	0.550898		
F57	1200	3.114028	0.335560	3.071658	0.440262		
F61	1200	3.877517	0.365998	2.986498	0.454527		
F62	1200	3.877517	0.341716	2.986498	0.346054		
F63	1200	3.877517	0.365998	2.986498	0.454527		
F64	1200	3.877517	0.341716	2.986498	0.346054		
Discus	F11	1200	3.214400	0.117333	2.795518	0.112238	
	F12	1200	3.214400	0.100844	2.795518	0.101687	
	F13	1200	3.214400	0.117031	2.795518	0.143526	
	F32	1200	2.575542	0.199741	2.594952	0.338648	
	F33	1200	2.575542	0.129710	2.594952	0.288623	
	F34	1200	2.575542	0.106028	2.594952	0.184031	
	F35	1200	3.214400	0.104542	2.795518	0.147826	
	F36	1200	3.214400	0.115779	2.795518	0.164182	
	F37	1200	3.214400	0.092118	2.795518	0.128238	
	F38	1200	3.214400	0.105321	2.795518	0.129773	
	F40	1200	3.214400	0.191169	2.795518	0.192034	
	F41	1200	3.214400	0.119009	2.795518	0.138870	
F42	1200	3.214400	0.105090	2.795518	0.144148		



Discus (cont.)	F43/44	1200	3.214400	0.082548	2.795518	0.113179
	F46	1200	3.214400	0.097193	2.795518	0.119009
	F51	1200	2.575542	0.351131	2.594952	0.300349
	F52	1200	2.575542	0.189084	2.594952	0.287157
	F53	1200	2.575542	0.163071	2.594952	0.323687
	F54	1200	2.575542	0.140174	2.594952	0.232607
	F55	1200	2.575542	0.112544	2.594952	0.174265
	F56	1200	2.575542	0.095860	2.594952	0.181243
	F57	1200	2.575542	0.087777	2.594952	0.133016
	F61	1200	3.214400	0.105090	2.795518	0.144148
	F62	1200	3.214400	0.082548	2.795518	0.113179
	F63	1200	3.214400	0.105090	2.795518	0.144148
	F64	1200	3.214400	0.082548	2.795518	0.113179
Javelin	F11	1200	2.850732	0.090920	2.370735	0.149487
	F12	1200	2.850732	0.069477	2.370735	0.090357
	F13	1200	2.850732	0.065660	2.370735	0.092521
	F33	1200	2.570877	0.170348	2.799938	0.315623
	F34	1200	2.570877	0.118437	2.799938	0.210815
	F35	1200	2.850732	0.112493	2.370735	0.150952
	F36	1200	2.850732	0.099929	2.370735	0.136599
	F37	1200	2.850732	0.091298	2.370735	0.127941
	F38	1200	2.850732	0.082154	2.370735	0.132970
	F40	1200	2.850732	0.121894	2.370735	0.171992
	F41	1200	2.850732	0.100213	2.370735	0.156707
	F42	1200	2.850732	0.086120	2.370735	0.130131
	F43/44	1200	2.850732	0.075036	2.370735	0.102169
	F46	1200	2.850732	0.074932	2.370735	0.094472
	F52	1200	2.570877	0.236144	2.799938	0.342197
	F53	1200	2.570877	0.192203	2.799938	0.369892
	F54	1200	2.570877	0.146067	2.799938	0.237193
	F55	1200	2.570877	0.135299	2.799938	0.227599
	F56	1200	2.570877	0.127423	2.799938	0.195356
	F57	1200	2.570877	0.095340	2.799938	0.183570
	F61	1200	2.850732	0.086120	2.370735	0.130131
	F62	1200	2.850732	0.075036	2.370735	0.102169
	F63	1200	2.850732	0.086120	2.370735	0.130131
	F64	1200	2.850732	0.075036	2.370735	0.102169
Club Throw	F31	1200	2.928956	0.130944	2.847729	0.289092
	F32	1200	2.928956	0.126283	2.847729	0.190315
	F51	1200	2.928956	0.146364	2.847729	0.182964
High Jump	T11	1200	7.969966	6.156595	n/a	n/a
	T12	1200	7.969966	4.902126	n/a	n/a
	T13	1200	7.969966	4.645444	n/a	n/a
	T42	1200	7.969966	5.037708	n/a	n/a
	T43/44	1200	7.969966	4.336886	6.848669	6.071675
	T45-47	1200	7.969966	4.696753	n/a	n/a
	T61	1200	7.969966	5.037708	n/a	n/a
	T62	1200	7.969966	4.336886	6.848669	6.071675
	T63	1200	7.969966	5.037708	n/a	n/a
	T64	1200	7.969966	4.336886	6.848669	6.071675
Long Jump	T11	1200	5.660052	1.090072	5.787447	1.470529
	T12	1200	5.660052	0.988655	5.787447	1.225753
	T13	1200	5.660052	1.021053	5.787447	1.305537



T20	1200	5.660052	1.008066	5.787447	1.319424	
T35	1200	5.660052	1.547771	5.787447	2.127188	
T36	1200	5.660052	1.261844	5.787447	1.697302	
T37	1200	5.660052	1.134776	5.787447	1.562599	
T38	1200	5.660052	1.088730	5.787447	1.481458	
T42	1200	5.660052	1.094213	5.787447	1.635018	
T43/44	1200	5.660052	0.989392	5.787447	1.259742	
T45-47	1200	5.660052	1.028774	5.787447	1.273799	
T61	1200	5.660052	1.094213	5.787447	1.635018	
T62	1200	5.660052	0.989392	5.787447	1.259742	
T63	1200	5.660052	1.094213	5.787447	1.635018	
T64	1200	5.660052	0.989392	5.787447	1.259742	
Triple Jump	T11	1200	10.653824	0.947962	n/a	n/a
	T12	1200	10.653824	0.826646	n/a	n/a
	T13	1200	10.653824	0.900026	n/a	n/a
	T20	1200	10.653824	0.865227	8.360791	0.787919
	T42	1200	n/a	n/a	n/a	n/a
	T43/44	1200	n/a	n/a	n/a	n/a
	T45-47	1200	10.653824	0.851656	n/a	n/a
	T61	1200	n/a	n/a	n/a	n/a
	T62	1200	n/a	n/a	n/a	n/a
	T63	1200	n/a	n/a	n/a	n/a
	T64	1200	n/a	n/a	n/a	n/a

Youth Point Scores 2021

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.