World Para Athletics Raza Point Scores 2023

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	3.764350	0.400521	3.004326	0.317573
	F12	1200	3.764350	0.323428	3.004326	0.338751
	F13	1200	3.764350	0.409783	3.004326	0.367791
	F20	1200	3.764350	0.320623	3.004326	0.329094
	F32	1200	3.085696	0.423952	3.000108	0.645688
	F33	1200	3.085696	0.402777	3.000108	0.662169
	F34	1200	3.085696	0.386976	3.000108	0.540628
	F35	1200	3.764350	0.331104	3.004326	0.392092
	F36	1200	3.764350	0.356697	3.004326	0.419717
	F37	1200	3.764350	0.363811	3.004326	0.386492
	F38	1200	3.764350	0.347705	3.004326	0.413529
	F40	1200	3.764350	0.466102	3.004326	0.538936
	F41	1200	3.764350	0.401361	3.004326	0.478304
	F42	1200	3.764350	0.357342	3.004326	0.457319
	F43/44	1200	3.764350	0.336711	3.004326	0.346917
	F46	1200	3.764350	0.329574	3.004326	0.388470
	F51	n/a	n/a	n/a	n/a	n/a
	F52	1200	3.085696	0.457065	3.000108	0.855350
	F53	1200	3.085696	0.533492	3.000108	0.907876
	F54	1200	3.085696	0.470135	3.000108	0.589267
	F55	1200	3.085696	0.394391	3.000108	0.581977
	F56	1200	3.085696	0.396213	3.000108	0.546548
	F57	1200	3.085696	0.330364	3.000108	0.428584
	F61	1200	3.764350	0.357342	3.004326	0.457319
	F62	1200	3.764350	0.336711	3.004326	0.346917
	F63	1200	3.764350	0.357342	3.004326	0.457319
	F64	1200	3.764350	0.336711	3.004326	0.346917
Discus	F11	1200	3.184645	0.114962	2.789979	0.108822
	F12	1200	3.184645	0.100385	2.789979	0.101661
	F13	1200	3.184645	0.112880	2.789979	0.144030
	F32	1200	2.563306	0.193835	2.520235	0.334859
	F33	1200	2.563306	0.129567	2.520235	0.268455
	F34	1200	2.563306	0.108878	2.520235	0.180737
	F35	1200	3.184645	0.102935	2.789979	0.148584
	F36	1200	3.184645	0.115334	2.789979	0.164245
	F37	1200	3.184645	0.091331	2.789979	0.130230
	F38	1200	3.184645	0.104984	2.789979	0.124167
	F40	1200	3.184645	0.182583	2.789979	0.186051
	F41	1200	3.184645	0.118496	2.789979	0.135076
	F42	1200	3.184645	0.104589	2.789979	0.141948

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Discus (cont.)	F43/44	1200	3.184645	0.080433	2.789979	0.111359
	F46	1200	3.184645	0.096802	2.789979	0.120476
	F51	1200	2.563306	0.348628	2.520235	0.273653
	F52	1200	2.563306	0.183726	2.520235	0.269887
	F53	1200	2.563306	0.163415	2.520235	0.316030
	F54	1200	2.563306	0.138871	2.520235	0.225527
	F55	1200	2.563306	0.112711	2.520235	0.164896
	F56	1200	2.563306	0.094936	2.520235	0.176232
	F57	1200	2.563306	0.087506	2.520235	0.128307
	F61	1200	3.184645	0.104589	2.789979	0.141948
	F62	1200	3.184645	0.080433	2.789979	0.111359
	F63	1200	3.184645	0.104589	2.789979	0.141948
	F64	1200	3.184645	0.080433	2.789979	0.111359
Javelin	F11	1200	2.815418	0.090486	2.359204	0.149057
	F12	1200	2.815418	0.069120	2.359204	0.090873
	F13	1200	2.815418	0.063234	2.359204	0.093556
	F33	1200	2.483643	0.168063	2.747436	0.304073
	F34	1200	2.483643	0.115365	2.747436	0.209437
	F35	1200	2.815418	0.112773	2.359204	0.154005
	F36	1200	2.815418	0.099146	2.359204	0.136406
	F37	1200	2.815418	0.090962	2.359204	0.129252
	F38	1200	2.815418	0.080163	2.359204	0.128871
	F40	1200	2.815418	0.117342	2.359204	0.168379
	F41	1200	2.815418	0.098881	2.359204	0.156565
	F42	1200	2.815418	0.084739	2.359204	0.129886
	F43/44	1200	2.815418	0.072608	2.359204	0.101853
	F46	1200	2.815418	0.072072	2.359204	0.093484
	F52	1200	2.483643	0.226643	2.747436	0.344263
	F53	1200	2.483643	0.188055	2.747436	0.363511
	F54	1200	2.483643	0.139535	2.747436	0.231351
	F55	1200	2.483643	0.133216	2.747436	0.224832
	F56	1200	2.483643	0.125034	2.747436	0.187987
	F57	1200	2.483643	0.090551	2.747436	0.182078
	F61	1200	2.815418	0.084739	2.359204	0.129886
	F62	1200	2.815418	0.072608	2.359204	0.101853
	F63	1200	2.815418	0.084739	2.359204	0.129886
	F64	1200	2.815418	0.072608	2.359204	0.101853
Club Throw	F31	1200	2.920325	0.129476	2.759481	0.208391
	F32	1200	2.920325	0.123116	2.759481	0.181127
	F51	1200	2.920325	0.140613	2.759481	0.173829
High Jump	T11	1200	8.002133	6.258664	n/a	n/a
	T12	1200	8.002133	4.908225	n/a	n/a
	T13	1200	8.002133	4.673512	n/a	n/a
	T42	1200	8.002133	5.021741	n/a	n/a
	T43/44	1200	8.002133	4.347138	6.848669	6.071675
	T45-47	1200	8.002133	4.662920	n/a	n/a
	T61	1200	8.002133	5.021741	n/a	n/a
	T62	1200	8.002133	4.347138	6.848669	6.071675
	T63	1200	8.002133	5.021741	n/a	n/a
	T64	1200	8.002133	4.347138	6.848669	6.071675
Long Jump	T11	1200	5.617298	1.085856	5.733964	1.449755
	T12	1200	5.617298	0.984418	5.733964	1.227256
	T13	1200	5.617298	1.010187	5.733964	1.303181

	T20	1200	5.617298	1.000531	5.733964	1.300629
	T35	1200	5.617298	1.414294	5.733964	2.162317
	T36	1200	5.617298	1.241787	5.733964	1.679033
	T37	1200	5.617298	1.121570	5.733964	1.542668
	T38	1200	5.617298	1.069403	5.733964	1.468023
	T42	1200	5.617298	1.063034	5.733964	1.569691
	T43/44	1200	5.617298	0.978067	5.733964	1.235944
	T45-47	1200	5.617298	1.018154	5.733964	1.258078
	T61	1200	5.617298	1.063034	5.733964	1.569691
	T62	1200	5.617298	0.978067	5.733964	1.235944
	T63	1200	5.617298	1.063034	5.733964	1.569691
	T64	1200	5.617298	0.978067	5.733964	1.235944
Triple Jump	T11	1200	10.560785	0.940824	n/a	n/a
	T12	1200	10.560785	0.820422	n/a	n/a
	T13	1200	10.560785	0.893248	n/a	n/a
	T20	1200	10.560785	0.844493	8.225305	0.785035
	T42	1200	n/a	n/a	n/a	n/a
	T43/44	1200	n/a	n/a	n/a	n/a
	T45-47	1200	10.560785	0.845429	8.225305	0.952063
	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 2023

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.