



## World Para Athletics Raza Point Scores 2019

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

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

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

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

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

Event	Class	a	b (Men)	c (Men)	b (Women)	c (Women)
<b>100 m</b>	T11	1200	11.014901	140.1128	9.387484	131.6896
	T12	1200	11.014901	138.0753	9.387484	131.7225
	T13	1200	11.014901	136.8911	9.387484	131.1652
	T33	1200	9.190931	176.3680	9.025921	212.7870
	T34	1200	9.190931	164.0029	9.025921	184.6363
	T35	1200	11.014901	154.8769	9.387484	159.8136
	T36	1200	11.014901	151.5145	9.387484	157.4689
	T37	1200	11.014901	145.3877	9.387484	148.5573
	T38	1200	11.014901	140.0070	9.387484	143.0562
	T42	1200	11.014901	151.6676	9.387484	167.4929
	T43	1200	11.014901	136.1019	9.387484	140.6173
	T44	1200	11.014901	139.1528	9.387484	141.4228
	T45-47	1200	11.014901	137.2673	9.387484	135.8401
	T51	1200	9.190931	218.5863	9.025921	272.2670
	T52	1200	9.190931	182.5284	9.025921	197.6767
	T53	1200	9.190931	156.8064	9.025921	174.3089
	T54	1200	9.190931	150.0492	9.025921	173.1697
	T61	1200	11.014901	151.6676	9.387484	167.4929
	T62	1200	11.014901	136.1019	9.387484	140.6173
	T63	1200	11.014901	151.6676	9.387484	167.4929
T64	1200	11.014901	139.1528	9.387484	141.4228	
<b>200 m</b>	T11	1200	10.513565	272.9448	8.764956	255.6002
	T12	1200	10.513565	267.6488	8.764956	251.5216
	T13	1200	10.513565	265.9839	8.764956	253.6465
	T33	1200	8.767171	299.3978	8.212587	346.8812
	T34	1200	8.767171	277.7719	8.212587	304.2138
	T35	1200	10.513565	301.2142	8.764956	305.5409
	T36	1200	10.513565	291.8061	8.764956	308.7792
	T37	1200	10.513565	282.2437	8.764956	293.3932
	T38	1200	10.513565	273.3303	8.764956	279.6937
	T42	1200	10.513565	294.4393	8.764956	339.4465
	T43	1200	10.513565	252.3439	8.764956	267.6709
	T44	1200	10.513565	270.2854	8.764956	276.1654
	T45-47	1200	10.513565	265.9312	8.764956	262.2792
	T51	1200	8.767171	387.7259	8.212587	477.5788
	T52	1200	8.767171	317.4226	8.212587	323.5436
	T53	1200	8.767171	266.1802	8.212587	284.0618
	T54	1200	8.767171	254.7482	8.212587	285.4602
T61	1200	10.513565	294.4393	8.764956	339.4465	
T62	1200	10.513565	252.3439	8.764956	267.6709	
T63	1200	10.513565	294.4393	8.764956	339.4465	

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<b>200 m (cont.)</b>	T64	1200	10.513565	270.2854	8.764956	276.1654
<b>400 m</b>	T11	1200	9.792800	570.1763	8.746026	586.9445
	T12	1200	9.792800	554.7574	8.746026	570.8804
	T13	1200	9.792800	550.7489	8.746026	562.4577
	T20	1200	9.792800	552.1822	8.746026	595.5102
	T33	1200	8.411215	572.0905	7.288604	655.1788
	T34	1200	8.411215	501.5634	7.288604	513.1354
	T35	1200	9.792800	651.3112	8.746026	746.6187
	T36	1200	9.792800	611.3647	8.746026	718.8751
	T37	1200	9.792800	590.0375	8.746026	654.3110
	T38	1200	9.792800	575.1360	8.746026	637.4524
	T42	1200	9.792800	581.2053	n/a	n/a
	T43	1200	9.792800	512.0103	8.746026	612.7695
	T44	1200	9.792800	585.5247	8.746026	593.0146
	T45-47	1200	9.792800	554.4002	8.746026	588.0264
	T51	1200	8.411215	767.8454	n/a	n/a
	T52	1200	8.411215	578.3947	7.288604	576.9551
	T53	1200	8.411215	480.1419	7.288604	483.0325
	T54	1200	8.411215	458.3511	7.288604	476.1674
	T61	1200	9.792800	581.2053	n/a	n/a
	T62	1200	9.792800	512.0103	8.746026	612.7695
	T63	1200	9.792800	581.2053	n/a	n/a
	T64	1200	9.792800	585.5247	8.746026	593.0146
<b>800 m</b>	T11	1200	11.292316	1536.3611	8.589501	1396.1172
	T12	1200	11.292316	1477.1419	8.589501	1386.5856
	T13	1200	11.292316	1438.7296	8.589501	1460.1232
	T20	1200	11.292316	1466.0641	8.589501	1387.9636
	T33	1200	7.885191	1116.9309	6.716964	1256.9564
	T34	1200	7.885191	921.9906	6.716964	944.2760
	T35	1200	11.292316	1990.4040	n/a	n/a
	T36	1200	11.292316	1624.7772	n/a	n/a
	T37	1200	11.292316	1551.0671	n/a	n/a
	T38	1200	11.292316	1554.2263	8.589501	1430.4816
	T44	1200	11.292316	1698.1474	n/a	n/a
	T45-47	1200	11.292316	1464.1790	8.589501	1414.8227
	T51	1200	7.885191	1574.7496	n/a	n/a
	T52	1200	7.885191	1076.2005	6.716964	1074.7742
	T53	1200	7.885191	897.0094	6.716964	857.4537
	T54	1200	7.885191	864.8973	6.716964	862.6981
	T64	1200	11.292316	1698.1474	n/a	n/a
<b>1500 m</b>	T11	1200	10.990614	3067.0362	8.818300	2893.4845
	T12	1200	10.990614	2896.2536	8.818300	2846.4626
	T13	1200	10.990614	2874.0887	8.818300	2698.8770
	T20	1200	10.990614	2906.5348	8.818300	2731.6472
	T33	1200	7.336953	2350.8631	6.280092	2392.3409
	T34	1200	7.336953	1655.3240	6.280092	1757.0107
	T36	1200	10.990614	3452.4412	n/a	n/a
	T37	1200	10.990614	3108.6202	n/a	n/a
	T38	1200	10.990614	3068.1400	n/a	n/a
	T44	1200	10.990614	3732.3939	n/a	n/a
	T45-47	1200	10.990614	2902.0206	n/a	n/a
	T51	1200	7.336953	2788.2047	n/a	n/a
	T52	1200	7.336953	1931.2423	n/a	n/a
	T53/54	1200	7.336953	1563.8974	6.280092	1528.1874
	T64	1200	10.990614	3732.3939	n/a	n/a



<b>5000 m</b>	T11	1200	10.701775	11295.2711	10.940054	14275.9376	
	T12	1200	10.701775	10648.0706	10.940054	13495.2718	
	T13	1200	10.701775	10707.4184	n/a	n/a	
	T20	1200	10.701775	10749.7037	10.940054	13407.7925	
	T34	1200	8.051562	6540.3412	n/a	n/a	
	T37	1200	10.701775	10920.5428	n/a	n/a	
	T38	1200	10.701775	12356.4103	n/a	n/a	
	T45-47	1200	10.701775	10587.8579	n/a	n/a	
	T51	1200	8.051562	10217.4295	n/a	n/a	
	T52	1200	8.051562	7360.8986	n/a	n/a	
	T53/54	1200	8.051562	5639.2681	8.911810	6916.5763	
	<b>10000 m</b>	T11	1200	12.640825	27844.3115	n/a	n/a
		T12	1200	12.640825	26456.2395	n/a	n/a
T13		1200	12.640825	27019.6574	n/a	n/a	
T20		1200	12.640825	27222.2748	n/a	n/a	
T45-47		1200	12.640825	27308.8756	n/a	n/a	
T51		1200	8.405968	20954.5067	n/a	n/a	
T52		1200	8.405968	16066.7343	n/a	n/a	
T53/54		1200	8.405968	11713.8919	n/a	n/a	

## Youth Point Scores 2019

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 top performers at major international Para athletics competitions and the average of performances expected at youth events.

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:

$$G(p, a, b, c) = q = ae^{-e^{b-1.16 \cdot \frac{c}{p}}}$$

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

$$G^{-1}(q, a, b, c) = p = 1.16 \cdot c / \left( b - \ln \left( \ln \left( \frac{a}{q} \right) \right) \right)$$

with performance  $p$  (in seconds), points  $q$ , and parameters  $a, b, c$  as listed on pages 1-3 in this document.