



## World Para Athletics Raza Point Scores 2018

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

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

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	10.971191	139.8393	9.565428	135.2512
	T12	1200	10.971191	138.0283	9.565428	134.3535
	T13	1200	10.971191	137.0257	9.565428	135.1153
	T33	1200	9.188962	176.9927	8.795080	207.6976
	T34	1200	9.188962	165.4070	8.795080	182.1833
	T35	1200	10.971191	155.0682	9.565428	165.4710
	T36	1200	10.971191	150.9139	9.565428	159.5234
	T37	1200	10.971191	144.3758	9.565428	152.7994
	T38	1200	10.971191	140.0295	9.565428	145.8051
	T42	1200	10.971191	151.2637	9.565428	172.3306
	T43/44	1200	10.971191	137.2960	9.565428	142.8366
	T45-47	1200	10.971191	137.6635	9.565428	138.1694
	T51	1200	9.188962	220.2271	8.795080	251.5059
	T52	1200	9.188962	182.7650	8.795080	192.4248
	T53	1200	9.188962	156.7935	8.795080	170.7723
	T54	1200	9.188962	150.0075	8.795080	169.4746
	T61	1200	10.971191	151.2637	9.565428	172.3306
	T62	1200	10.971191	137.2960	9.565428	142.8366
	T63	1200	10.971191	151.2637	9.565428	172.3306
	T64	1200	10.971191	137.2960	9.565428	142.8366
<b>200 m</b>	T11	1200	10.581572	274.7324	8.812916	259.2264
	T12	1200	10.581572	269.0006	8.812916	254.7020
	T13	1200	10.581572	268.4266	8.812916	261.0125
	T33	1200	8.747546	304.6593	8.056335	351.9119
	T34	1200	8.747546	280.2003	8.056335	301.3124
	T35	1200	10.581572	309.2351	8.812916	309.9297
	T36	1200	10.581572	300.8655	8.812916	309.3501
	T37	1200	10.581572	282.3999	8.812916	299.5924
	T38	1200	10.581572	277.0017	8.812916	283.3035
	T42	1200	10.581572	300.8875	8.812916	343.6624
	T43	1200	10.581572	254.7984	8.812916	266.6578
	T44	1200	10.581572	271.6323	8.812916	280.0557
	T45-47	1200	10.581572	267.7778	8.812916	265.9380
	T51	1200	8.747546	392.2052	8.056335	463.6787
	T52	1200	8.747546	316.2329	8.056335	318.3059
	T53	1200	8.747546	265.5568	8.056335	281.6205
	T54	1200	8.747546	254.2383	8.056335	283.2797
	T61	1200	10.581572	300.8875	8.812916	343.6624
	T62	1200	10.581572	254.7984	8.812916	266.6578
	T63	1200	10.581572	300.8875	8.812916	343.6624
T64	1200	10.581572	271.6323	8.812916	280.0557	

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<b>400 m</b>	T11	1200	9.870037	575.9360	8.778692	588.9641	
	T12	1200	9.870037	561.8438	8.778692	572.6452	
	T13	1200	9.870037	552.1368	8.778692	567.2968	
	T20	1200	9.870037	557.7789	8.778692	608.5746	
	T33	1200	8.540093	581.1445	7.251277	638.1533	
	T34	1200	8.540093	517.8114	7.251277	513.7536	
	T35	1200	9.870037	680.6504	8.778692	721.9146	
	T36	1200	9.870037	614.9496	8.778692	720.2234	
	T37	1200	9.870037	594.7471	8.778692	665.0285	
	T38	1200	9.870037	574.4288	8.778692	633.2867	
	T42	1200	9.870037	627.9278	n/a	n/a	
	T43	1200	9.870037	522.0783	8.778692	613.0546	
	T44	1200	9.870037	589.5104	8.778692	600.9169	
	T45-47	1200	9.870037	562.9898	8.778692	591.0744	
	T51	1200	8.540093	784.2038	n/a	n/a	
	T52	1200	8.540093	589.0888	7.251277	574.0989	
	T53	1200	8.540093	489.6704	7.251277	485.3585	
	T54	1200	8.540093	467.5610	7.251277	476.9784	
	T61	1200	9.870037	627.9278	n/a	n/a	
	T62	1200	9.870037	522.0783	8.778692	613.0546	
	T63	1200	9.870037	627.9278	n/a	n/a	
	T64	1200	9.870037	589.5104	8.778692	600.9169	
	<b>800 m</b>	T11	1200	11.942383	1613.9099	8.440072	1393.7831
		T12	1200	11.942383	1558.9685	8.440072	1366.9522
T13		1200	11.942383	1517.5663	8.440072	1508.7781	
T20		1200	11.942383	1537.7072	8.440072	1395.5184	
T33		1200	8.116620	1139.5177	6.577420	1225.8876	
T34		1200	8.116620	964.7862	6.577420	955.1956	
T36		1200	11.942383	1712.8428	n/a	n/a	
T37		1200	11.942383	1624.2832	n/a	n/a	
T38		1200	11.942383	1671.0284	n/a	n/a	
T44		1200	11.942383	1852.1757	n/a	n/a	
T45-47		1200	11.942383	1536.8019	8.440072	1394.2799	
T51		1200	8.116620	1661.5400	n/a	n/a	
T52		1200	8.116620	1102.4707	6.577420	1056.9599	
T53		1200	8.116620	924.5229	6.577420	870.7373	
T54		1200	8.116620	898.9787	6.577420	854.6080	
T64		1200	11.942383	1852.1757	n/a	n/a	
<b>1500 m</b>	T11	1200	11.096869	3101.8311	9.094658	2968.9042	
	T12	1200	11.096869	2940.0777	9.094658	2916.9698	
	T13	1200	11.096869	2903.9725	9.094658	2779.4762	
	T20	1200	11.096869	2975.6249	9.094658	2790.3554	
	T33	1200	n/a	n/a	6.171597	2258.9400	
	T34	1200	7.651074	1753.5823	6.171597	1772.5411	
	T36	1200	11.096869	3447.3699	n/a	n/a	
	T37	1200	11.096869	3157.4179	n/a	n/a	
	T38	1200	11.096869	3117.1772	n/a	n/a	
	T44	1200	11.096869	4029.7804	n/a	n/a	
	T45-47	1200	11.096869	2938.9290	n/a	n/a	
	T51	1200	7.651074	2957.3104	n/a	n/a	
	T52	1200	7.651074	2014.7294	n/a	n/a	
	T53/54	1200	7.651074	1626.6371	6.171597	1507.5438	
T64	1200	11.096869	4029.7804	n/a	n/a		
<b>5000 m</b>	T11	1200	11.003900	11595.9985	12.017403	15918.0408	
	T12	1200	11.003900	10933.2979	12.017403	14580.0661	



<b>5000 m (cont.)</b>	T13	1200	11.003900	11106.8339	n/a	n/a
	T20	1200	11.003900	11370.6911	12.017403	14566.8318
	T34	1200	8.444580	6910.9762	n/a	n/a
	T45-47	1200	11.003900	10902.9801	n/a	n/a
	T51	1200	8.444580	10863.4256	n/a	n/a
	T52	1200	8.444580	7720.4339	n/a	n/a
	T53/54	1200	8.444580	5918.2277	8.684906	6818.2374
<b>10000 m</b>	T11	1200	11.830701	26162.0992	n/a	n/a
	T12	1200	11.830701	24714.9944	n/a	n/a
	T13	1200	11.830701	25242.8550	n/a	n/a
	T20	1200	11.830701	25766.1367	n/a	n/a
	T45-47	1200	11.830701	25949.7934	n/a	n/a
	T51	1200	9.188935	22627.7240	n/a	n/a
	T52	1200	9.188935	17188.5881	n/a	n/a
	T53/54	1200	9.188935	12722.7120	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 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.