



## World Para Athletics Raza Point Scores 2023

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

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

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	10.896562	137.9354	9.099032	128.1699	
	T12	1200	10.896562	135.3659	9.099032	127.3569	
	T13	1200	10.896562	134.4742	9.099032	127.3462	
	T33	1200	9.147912	177.0724	8.942700	209.3413	
	T34	1200	9.147912	161.8983	8.942700	182.2832	
	T35	1200	10.896562	152.7867	9.099032	153.7799	
	T36	1200	10.896562	149.0410	9.099032	151.8185	
	T37	1200	10.896562	143.6230	9.099032	143.8613	
	T38	1200	10.896562	138.4066	9.099032	137.3275	
	T42	1200	10.896562	150.4595	9.099032	158.6593	
	T43	1200	10.896562	133.9990	9.099032	133.5111	
	T44	1200	10.896562	137.4680	9.099032	136.7319	
	T45-47	1200	10.896562	135.3345	9.099032	131.7090	
	T51	1200	9.147912	214.3629	8.942700	271.4804	
	T52	1200	9.147912	179.7747	8.942700	195.7223	
	T53	1200	9.147912	156.2475	8.942700	171.0271	
	T54	1200	9.147912	149.0792	8.942700	170.3062	
	T61	1200	10.896562	150.4595	9.099032	158.6593	
	T62	1200	10.896562	133.9990	9.099032	133.5111	
	T63	1200	10.896562	150.4595	9.099032	158.6593	
	T64	1200	10.896562	137.4680	9.099032	136.7319	
	<b>200 m</b>	T11	1200	10.300239	267.1022	8.768913	256.0890
		T12	1200	10.300239	262.6882	8.768913	249.6571
		T13	1200	10.300239	260.8471	8.768913	256.1882
T33		1200	8.665928	299.0305	8.115445	342.0957	
T34		1200	8.665928	274.0923	8.115445	300.5913	
T35		1200	10.300239	297.7386	8.768913	302.6947	
T36		1200	10.300239	285.1891	8.768913	307.8213	
T37		1200	10.300239	276.6170	8.768913	290.4197	
T38		1200	10.300239	270.1177	8.768913	277.3385	
T42		1200	10.300239	286.6949	8.768913	331.3547	
T43		1200	10.300239	247.6128	8.768913	268.8515	
T44		1200	10.300239	264.6043	8.768913	273.4824	
T45-47		1200	10.300239	260.8004	8.768913	261.3229	
T51		1200	8.665928	376.2603	8.115445	492.7079	
T52		1200	8.665928	313.1513	8.115445	319.8409	
T53		1200	8.665928	263.1792	8.115445	278.7572	
T54		1200	8.665928	252.1763	8.115445	280.5929	
T61		1200	10.300239	286.6949	8.768913	331.3547	
T62		1200	10.300239	247.6128	8.768913	268.8515	
T63		1200	10.300239	286.6949	8.768913	331.3547	

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<b>200 m (cont.)</b>	T64	1200	10.300239	264.6043	8.768913	273.4824
<b>400 m</b>	T11	1200	9.772637	566.9777	8.662912	582.9803
	T12	1200	9.772637	550.5386	8.662912	567.4744
	T13	1200	9.772637	547.1738	8.662912	559.6729
	T20	1200	9.772637	546.8569	8.662912	587.4245
	T33	1200	8.374964	579.5538	7.193309	640.3499
	T34	1200	8.374964	492.3988	7.193309	505.8784
	T35	1200	9.772637	676.5108	8.662912	760.9468
	T36	1200	9.772637	609.1482	8.662912	716.1657
	T37	1200	9.772637	585.6731	8.662912	643.5793
	T38	1200	9.772637	576.3879	8.662912	624.0723
	T42	1200	9.772637	555.1883	n/a	n/a
	T43	1200	9.772637	518.2578	8.662912	607.8950
	T44	1200	9.772637	584.1968	8.662912	586.3240
	T45-47	1200	9.772637	552.1736	8.662912	583.1720
	T51	1200	8.374964	765.5402	n/a	n/a
	T52	1200	8.374964	574.8700	7.193309	572.5670
	T53	1200	8.374964	477.7334	7.193309	474.2046
	T54	1200	8.374964	455.7915	7.193309	467.6850
	T61	1200	9.772637	555.1883	n/a	n/a
	T62	1200	9.772637	518.2578	8.662912	607.8950
	T63	1200	9.772637	555.1883	n/a	n/a
	T64	1200	9.772637	584.1968	8.662912	586.3240
<b>800 m</b>	T11	1200	10.600322	1450.8274	8.067102	1318.6897
	T12	1200	10.600322	1400.5677	8.067102	1305.9325
	T13	1200	10.600322	1366.0026	8.067102	1352.2610
	T20	1200	10.600322	1386.7733	8.067102	1313.4743
	T33	1200	7.677374	1099.2183	6.645036	1216.2248
	T34	1200	7.677374	889.5612	6.645036	944.0037
	T35	1200	10.600322	1712.6638	8.067102	2077.3616
	T36	1200	10.600322	1533.0871	8.067102	1812.7115
	T37	1200	10.600322	1466.1153	8.067102	1581.2610
	T38	1200	10.600322	1434.3111	8.067102	1523.6742
	T44	1200	10.600322	1602.6259	n/a	n/a
	T45-47	1200	10.600322	1386.5961	8.067102	1343.0059
	T51	1200	7.677374	1540.1551	n/a	n/a
	T52	1200	7.677374	1053.9999	6.645036	1058.6206
	T53	1200	7.677374	874.0824	6.645036	840.8595
	T54	1200	7.677374	838.6512	6.645036	847.5742
	T64	1200	10.600322	1602.6259	n/a	n/a
<b>1500 m</b>	T11	1200	10.422742	2903.6451	8.382513	2750.1674
	T12	1200	10.422742	2737.6817	8.382513	2736.4016
	T13	1200	10.422742	2735.0023	8.382513	2552.5041
	T20	1200	10.422742	2771.9829	8.382513	2637.9459
	T33	1200	7.215967	2347.6413	6.672396	2524.8600
	T34	1200	7.215967	1633.5639	6.672396	1817.3279
	T35	1200	10.422742	3615.7945	n/a	n/a
	T36	1200	10.422742	3289.7321	n/a	n/a
	T37	1200	10.422742	2958.6169	n/a	n/a
	T38	1200	10.422742	2845.2051	n/a	n/a
	T44	1200	10.422742	3306.3109	n/a	n/a
	T45-47	1200	10.422742	2762.2923	n/a	n/a
	T51	1200	7.215967	2759.3469	n/a	n/a
	T52	1200	7.215967	1903.6858	n/a	n/a
	T53/54	1200	7.215967	1531.5005	6.672396	1589.7308



	T64	1200	10.422742	3306.3109	n/a	n/a
<b>5000 m</b>	T11	1200	10.279372	10811.9086	10.618652	14087.8965
	T12	1200	10.279372	10219.0479	10.618652	13301.7839
	T13	1200	10.279372	10292.2694	10.618652	13314.4736
	T20	1200	10.279372	10345.2722	10.618652	12721.9597
	T34	1200	8.157716	6480.4159	n/a	n/a
	T37	1200	10.279372	10631.9123	n/a	n/a
	T38	1200	10.279372	10325.6189	n/a	n/a
	T45-47	1200	10.279372	10154.5859	n/a	n/a
	T51	1200	8.157716	10364.6454	n/a	n/a
	T52	1200	8.157716	7241.4068	n/a	n/a
	T53/54	1200	8.157716	5680.5855	9.620434	7321.8723
<b>10000 m</b>	T11	1200	12.100056	26758.1928	n/a	n/a
	T12	1200	12.100056	25388.4975	n/a	n/a
	T13	1200	12.100056	25996.1231	n/a	n/a
	T20	1200	12.100056	25152.2100	n/a	n/a
	T45-47	1200	12.100056	26348.9847	n/a	n/a
	T51	1200	9.006902	21964.1753	n/a	n/a
	T52	1200	9.006902	16981.1636	n/a	n/a
	T53/54	1200	9.006902	12565.3126	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 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.