



World Para Athletics Raza Point Scores 2021

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

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

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)	
100 m	T11	1200	11.068111	140.2461	9.269555	130.2561	
	T12	1200	11.068111	137.9835	9.269555	129.7351	
	T13	1200	11.068111	137.0812	9.269555	129.9139	
	T33	1200	9.194202	177.4442	9.088369	212.1653	
	T34	1200	9.194202	163.5178	9.088369	184.8522	
	T35	1200	11.068111	155.1518	9.269555	157.3346	
	T36	1200	11.068111	151.7484	9.269555	154.9465	
	T37	1200	11.068111	146.0228	9.269555	146.6624	
	T38	1200	11.068111	140.5502	9.269555	140.9336	
	T42	1200	11.068111	152.3767	9.269555	164.0464	
	T43	1200	11.068111	136.3347	9.269555	137.5442	
	T44	1200	11.068111	140.0639	9.269555	139.7037	
	T45-47	1200	11.068111	137.6940	9.269555	134.1101	
	T51	1200	9.194202	217.4076	9.088369	279.6338	
	T52	1200	9.194202	181.4646	9.088369	198.9297	
	T53	1200	9.194202	157.0477	9.088369	174.6179	
	T54	1200	9.194202	149.8795	9.088369	173.5207	
	T61	1200	11.068111	152.3767	9.269555	164.0464	
	T62	1200	11.068111	136.3347	9.269555	137.5442	
	T63	1200	11.068111	152.3767	9.269555	164.0464	
	T64	1200	11.068111	140.0639	9.269555	139.7037	
	200 m	T11	1200	10.499603	272.2701	8.778086	256.2784
		T12	1200	10.499603	267.0938	8.778086	250.3720
		T13	1200	10.499603	265.4746	8.778086	255.9768
T33		1200	8.724769	298.2493	8.182944	340.0333	
T34		1200	8.724769	276.1954	8.182944	302.5380	
T35		1200	10.499603	301.7648	8.778086	305.6233	
T36		1200	10.499603	290.6072	8.778086	309.0085	
T37		1200	10.499603	282.3351	8.778086	292.1928	
T38		1200	10.499603	274.1177	8.778086	278.7288	
T42		1200	10.499603	292.7373	8.778086	337.1197	
T43		1200	10.499603	251.9053	8.778086	268.3630	
T44		1200	10.499603	270.0442	8.778086	276.0083	
T45-47		1200	10.499603	265.4624	8.778086	262.1252	
T51		1200	8.724769	382.9885	8.182944	496.0955	
T52		1200	8.724769	315.8300	8.182944	322.9509	
T53		1200	8.724769	265.2052	8.182944	281.8819	
T54		1200	8.724769	253.2448	8.182944	283.6977	
T61		1200	10.499603	292.7373	8.778086	337.1197	
T62		1200	10.499603	251.9053	8.778086	268.3630	
T63		1200	10.499603	292.7373	8.778086	337.1197	

International Paralympic Committee

Adenauerallee 212-214 Tel. +49 228 2097-200
53113 Bonn, Germany Fax +49 228 2097-209

www.paralympic.org
info@paralympic.org



200 m (cont.)	T64	1200	10.499603	270.0442	8.778086	276.0083
400 m	T11	1200	9.893996	575.9355	8.634278	581.7947
	T12	1200	9.893996	558.3013	8.634278	563.7355
	T13	1200	9.893996	555.1379	8.634278	556.8073
	T20	1200	9.893996	555.5685	8.634278	588.4429
	T33	1200	8.423961	575.5292	7.254613	637.5560
	T34	1200	8.423961	498.6691	7.254613	509.0637
	T35	1200	9.893996	667.2673	8.634278	746.7263
	T36	1200	9.893996	616.5889	8.634278	715.2292
	T37	1200	9.893996	592.9930	8.634278	643.2247
	T38	1200	9.893996	581.8976	8.634278	628.6670
	T42	1200	9.893996	558.6695	n/a	n/a
	T43	1200	9.893996	521.7720	8.634278	606.2156
	T44	1200	9.893996	592.1006	8.634278	587.5720
	T45-47	1200	9.893996	559.6661	8.634278	582.6812
	T51	1200	8.423961	770.1155	n/a	n/a
	T52	1200	8.423961	578.7847	7.254613	574.8608
	T53	1200	8.423961	480.5071	7.254613	479.1987
	T54	1200	8.423961	458.5476	7.254613	473.3589
	T61	1200	9.893996	558.6695	n/a	n/a
	T62	1200	9.893996	521.7720	8.634278	606.2156
	T63	1200	9.893996	558.6695	n/a	n/a
	T64	1200	9.893996	592.1006	8.634278	587.5720
800 m	T11	1200	11.106382	1513.9717	8.379287	1364.3071
	T12	1200	11.106382	1454.8136	8.379287	1351.3075
	T13	1200	11.106382	1420.5377	8.379287	1447.2143
	T20	1200	11.106382	1450.0024	8.379287	1352.7715
	T33	1200	7.850796	1123.0251	6.707592	1201.0810
	T34	1200	7.850796	914.9771	6.707592	948.6769
	T35	1200	11.106382	1841.7852	8.379287	2143.7466
	T36	1200	11.106382	1598.4396	n/a	n/a
	T37	1200	11.106382	1531.1330	n/a	n/a
	T38	1200	11.106382	1520.3237	8.379287	1356.9491
	T44	1200	11.106382	1704.3699	n/a	n/a
	T45-47	1200	11.106382	1442.7682	8.379287	1385.9235
	T51	1200	7.850796	1577.2386	n/a	n/a
	T52	1200	7.850796	1071.9223	6.707592	1073.5778
	T53	1200	7.850796	893.2916	6.707592	852.6259
	T54	1200	7.850796	858.4314	6.707592	857.5752
	T64	1200	11.106382	1704.3699	n/a	n/a
1500 m	T11	1200	10.669882	2982.1262	8.782048	2874.7060
	T12	1200	10.669882	2800.3143	8.782048	2835.1876
	T13	1200	10.669882	2801.3145	8.782048	2700.8197
	T20	1200	10.669882	2836.1692	8.782048	2740.7777
	T33	1200	7.325177	2343.4720	6.582636	2484.7836
	T34	1200	7.325177	1651.2697	6.582636	1810.5456
	T36	1200	10.669882	3350.6843	n/a	n/a
	T37	1200	10.669882	3028.5630	n/a	n/a
	T38	1200	10.669882	2974.5117	n/a	n/a
	T44	1200	10.669882	3373.7040	n/a	n/a
	T45-47	1200	10.669882	2815.3488	n/a	n/a
	T51	1200	7.325177	2792.5243	n/a	n/a
	T52	1200	7.325177	1932.6343	n/a	n/a
	T53/54	1200	7.325177	1556.3662	6.582636	1581.9280
	T64	1200	10.669882	3373.7040	n/a	n/a



5000 m	T11	1200	10.534841	11102.1235	10.376910	13594.0986	
	T12	1200	10.534841	10480.5540	10.376910	12966.7399	
	T13	1200	10.534841	10570.5422	10.376910	13041.6341	
	T20	1200	10.534841	10617.5723	10.376910	12649.3856	
	T34	1200	8.079747	6399.5657	n/a	n/a	
	T37	1200	10.534841	10843.1200	n/a	n/a	
	T38	1200	10.534841	12476.5598	n/a	n/a	
	T45-47	1200	10.534841	10430.6873	n/a	n/a	
	T51	1200	8.079747	10242.3605	n/a	n/a	
	T52	1200	8.079747	7238.1103	n/a	n/a	
	T53/54	1200	8.079747	5638.8959	9.591114	7343.5375	
	10000 m	T11	1200	12.433239	27587.7283	n/a	n/a
		T12	1200	12.433239	26000.1799	n/a	n/a
		T13	1200	12.433239	26623.6722	n/a	n/a
T20		1200	12.433239	25967.8512	n/a	n/a	
T45-47		1200	12.433239	26985.0519	n/a	n/a	
T51		1200	9.136570	22230.1279	n/a	n/a	
T52		1200	9.136570	17186.7796	n/a	n/a	
T53/54		1200	9.136570	12717.3224	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 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:

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

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.