



IPC Athletics Raza Point Scores 2014

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	3.494596	0.392222	3.318342	0.502343
	F12	1200	3.494596	0.319176	3.318342	0.379733
	F13	1200	3.494596	0.427946	3.318342	0.399814
	F20	1200	3.494596	0.335349	3.318342	0.374590
	F32	1200	3.494596	0.466712	3.318342	0.744868
	F33	1200	3.494596	0.438479	3.318342	0.724513
	F34	1200	3.494596	0.389178	3.318342	0.576251
	F35	1200	3.494596	0.381351	3.318342	0.444176
	F36	1200	3.494596	0.375675	3.318342	0.453468
	F37	1200	3.494596	0.348792	3.318342	0.409872
	F38	1200	3.494596	0.325000	3.318342	0.431852
	F40	1200	3.494596	0.410593	3.318342	0.555174
	F41	1200	3.494596	0.409123	3.318342	0.508000
	F42	1200	3.494596	0.353591	3.318342	0.490368
	F43/44	1200	3.494596	0.311698	3.318342	0.343761
	F46	1200	3.494596	0.326342	3.318342	0.426505
	F51	1200	n/a	n/a	n/a	n/a
	F52	1200	3.494596	0.484864	3.318342	0.846529
	F53	1200	3.494596	0.584750	3.318342	1.069926
	F54	1200	3.494596	0.506654	3.318342	0.679249
F55	1200	3.494596	0.424500	3.318342	0.590224	
F56	1200	3.494596	0.425368	3.318342	0.542274	
F57	1200	3.494596	0.360240	3.318342	0.488159	
Discus	F11	1200	2.795732	0.108177	2.812179	0.165907
	F12	1200	2.795732	0.096595	2.812179	0.104716
	F13	1200	2.795732	0.105525	2.812179	0.138926
	F32	1200	2.795732	0.192379	2.812179	0.328082
	F33	1200	2.795732	0.132903	2.812179	0.292347
	F34	1200	2.795732	0.099604	2.812179	0.173817
	F35	1200	2.795732	0.102338	2.812179	0.137495
	F36	1200	2.795732	0.107011	2.812179	0.168627
	F37	1200	2.795732	0.083547	2.812179	0.131961
	F38	1200	2.795732	0.089655	2.812179	0.139528
	F40	1200	2.795732	0.108524	2.812179	0.140760
	F41	1200	2.795732	0.108025	2.812179	0.139896
F42	1200	2.795732	0.097563	2.812179	0.149142	



Discus (cont.)	F43/44	1200	2.795732	0.078265	2.812179	0.108570
	F46	1200	2.795732	0.091165	2.812179	0.121762
	F51	1200	2.795732	0.366274	2.812179	0.678705
	F52	1200	2.795732	0.206261	2.812179	0.302851
	F53	1200	2.795732	0.171722	2.812179	0.323353
	F54	1200	2.795732	0.142295	2.812179	0.266826
	F55	1200	2.795732	0.117821	2.812179	0.157996
	F56	1200	2.795732	0.103273	2.812179	0.185672
	F57	1200	2.795732	0.092901	2.812179	0.141260
Javelin	F11	1200	2.739755	0.079728	2.618684	0.150493
	F12	1200	2.739755	0.068269	2.618684	0.099798
	F13	1200	2.739755	0.067500	2.618684	0.107874
	F33	1200	2.739755	0.184013	2.618684	0.290227
	F34	1200	2.739755	0.112117	2.618684	0.182775
	F35	1200	2.739755	0.103779	2.618684	0.186368
	F36	1200	2.739755	0.100225	2.618684	0.145254
	F37	1200	2.739755	0.087595	2.618684	0.128777
	F38	1200	2.739755	0.092392	2.618684	0.139766
	F40	1200	2.739755	0.103686	2.618684	0.196094
	F41	1200	2.739755	0.098848	n/a	n/a
	F42	1200	2.739755	0.083298	2.618684	0.124036
	F43/44	1200	2.739755	0.076293	2.618684	0.100749
	F46	1200	2.739755	0.079544	2.618684	0.106503
	F52	1200	2.739755	0.238385	2.618684	0.418308
	F53	1200	2.739755	0.192536	2.618684	0.338608
	F54	1200	2.739755	0.151966	2.618684	0.196211
	F55	1200	2.739755	0.141034	2.618684	0.211605
	F56	1200	2.739755	0.129755	2.618684	0.206596
	F57	1200	2.739755	0.103063	2.618684	0.186868
Club Throw	F31	1200	3.357198	0.225353	2.978686	0.344096
	F32	1200	3.357198	0.142262	2.978686	0.208331
	F51	1200	3.357198	0.186558	2.978686	0.313427
Long Jump	T11	1200	6.086750	1.194791	6.691928	1.787918
	T12	1200	6.086750	1.071929	6.691928	1.372198
	T13	1200	6.086750	1.104343	6.691928	1.433695
	T20	1200	6.086750	1.113956	6.691928	1.495158
	T35	1200	n/a	n/a	n/a	n/a
	T36	1200	6.086750	1.437650	6.691928	1.882909
	T37	1200	6.086750	1.244984	6.691928	1.861849
	T38	1200	6.086750	1.203256	6.691928	1.725825
	T42	1200	6.086750	1.174141	6.691928	1.931573
	T43/44	1200	6.086750	1.099854	6.691928	1.548073
	T45-47	1200	6.086750	1.106572	6.691928	1.411663
Triple Jump	T11	1200	11.723616	1.028410	n/a	n/a
	T12	1200	11.723616	0.897194	n/a	n/a
	T13	1200	11.723616	0.999862	n/a	n/a
	T42	1200	n/a	n/a	n/a	n/a
	T43/44	1200	n/a	n/a	n/a	n/a
	T45-47	1200	11.723616	0.945483	n/a	n/a