

Profile	Potential		Max kE (given in kJ)	kJ assuming that		Difference of PE to given kJ	Difference of PE to kJ (Assuming kJ is given as Joules)	Maximum free fall			Maximum kE of freefall velocity	Difference between the given kE (Assuming Joules mistake) to the	
	Height	mass block kg		joules are given	PE kJ			Max Velocity	velocity (m/s)	KE of Velocity		KE of the given velocity	Difference between given velocity and free fall velocity (m/s)
1	88	100	14000	14	86.328	-13913.672	72.328	16	41.55	12.8	86.328	-1.2	25.55
	88	1000	120000	120	863.28	-119136.72	743.28	14	41.55	98	863.28	-22	27.55
	88	10000	1400000	1400	8632.8	-1391367.2	7232.8	16	41.55	1280	8632.8	-120	25.55
2	33	100	2200	2.2	32.373	-2167.627	30.173	6.3	25.45	1.9845	32.373	-0.2155	19.15
	33	1000	18200	18.2	323.73	-17876.27	305.53	7.21	25.45	25.99205	323.73	7.79205	18.24
	33	10000	62033	62.033	3237.3	-58795.7	3175.267	3.27	25.45	53.4645	3237.3	-8.5685	22.18
3	334	100	14027	14.027	327.654	-13699.346	313.627	16.29	80.95	13.268205	327.654	-0.758795	64.66
	334	1000	1750000	1750	3276.54	-1746723.46	1526.54	46.3	80.95	1071.845	3276.54	-678.155	34.65
	334	10000	11200000	11200	32765.4	-11167234.6	21565.4	63.5	80.95	20161.25	32765.4	8961.25	17.45
4	145	100	34500	34.5	142.245	-34357.755	107.745	28.43	53.34	40.413245	142.245	5.913245	24.91
	145	1000	583400	583.4	1422.45	-581977.55	839.05	34.42	53.34	592.3682	1422.45	8.9682	18.92
	145	10000	6973000	6973	14224.5	-6958775.5	7251.5	33.25	53.34	5527.8125	14224.5	-1445.1875	20.09
5	123	100	64300	64.3	120.663	-64179.337	56.363	36.32	49.12	65.95712	120.663	1.65712	12.80
	123	1000	670000	670	1206.63	-668793.37	536.63	33.24	49.12	552.4488	1206.63	-117.5512	15.88
	123	10000	6270000	6270	12066.3	-6257933.7	5796.3	33.5	49.12	5611.25	12066.3	-658.75	15.62
6	103	100	102500	102.5	101.043	-102398.957	-1.457	46	44.95	105.8	101.043	3.3	-1.05
	103	1000	958000	958	1010.43	-956989.57	52.43	45	44.95	1012.5	1010.43	54.5	-0.05
	103	10000	10500000	10500	10104.3	-10489895.7	-395.7	43.5	44.95	9461.25	10104.3	-1038.75	1.45
7	336	100	8320	8.32	329.616	-7990.384	321.296	12	81.19	7.2	329.616	-1.12	69.19
	336	1000	83000	83	3296.16	-79703.84	3213.16	11.5	81.19	66.125	3296.16	-16.875	69.69
	336	10000	7000000	7000	32961.6	-6967038.4	25961.6	11.5	81.19	661.25	32961.6	-6338.75	69.69
8	104	100	14300	14.3	102.024	-14197.976	87.724	16.7	45.17	13.9445	102.024	-0.3555	28.47
	104	1000	870000	870	1020.24	-868979.76	150.24	45	45.17	1012.5	1020.24	142.5	0.17
	104	10000	8650000	8650	10202.4	-8639797.6	1552.4	42	45.17	8820	10202.4	170	3.17
9	95	100	72000	72	93.195	-71906.805	21.195	38	43.17	72.2	93.195	0.2	5.17
	95	1000	630000	630	931.95	-629068.05	301.95	36	43.17	648	931.95	18	7.17
	95	10000	7120000	7120	9319.5	-7110680.5	2199.5	37	43.17	6845	9319.5	-275	6.17
10	68	100	24500	24.5	66.708	-24433.292	42.208	36.53	36.53	0	66.708	-24.5	36.53
	68	1000	653000	653	667.08	-652332.92	14.08	34.5	36.53	595.125	667.08	-57.875	2.03
	68	10000	6250000	6250	6670.8	-6243329.2	420.8	34	36.53	5780	6670.8	-470	2.53