



Speed/Distance/Time

HO 1 : 87.1

Prototype Speed		Scale Speed		Model speed	Distance in		Time to travel		
					5 sec	10 sec	1 m	3 m	5 m
10 km/h	6.21 mph	0.115 km/h	0.0714 mph	3.19 cm/s	16 cm	32 cm	31.4 s	1:34 min	2:37 min
20 km/h	12.4 mph	0.230 km/h	0.143 mph	6.38 cm/s	32 cm	64 cm	15.7 s	47.0 s	1:18 min
30 km/h	18.6 mph	0.344 km/h	0.214 mph	9.57 cm/s	48 cm	96 cm	10.5 s	31.4 s	52.3 s
40 km/h	24.9 mph	0.459 km/h	0.285 mph	12.8 cm/s	64 cm	1.28 m	7.84 s	23.5 s	39.2 s
50 km/h	31.1 mph	0.574 km/h	0.357 mph	15.9 cm/s	80 cm	1.59 m	6.27 s	18.8 s	31.4 s
60 km/h	37.3 mph	0.689 km/h	0.428 mph	19.1 cm/s	96 cm	1.91 m	5.23 s	15.7 s	26.1 s
70 km/h	43.5 mph	0.804 km/h	0.499 mph	22.3 cm/s	1.12 m	2.23 m	4.48 s	13.4 s	22.4 s
80 km/h	49.7 mph	0.919 km/h	0.571 mph	25.5 cm/s	1.28 m	2.55 m	3.92 s	11.8 s	19.6 s
90 km/h	55.9 mph	1.03 km/h	0.642 mph	28.7 cm/s	1.44 m	2.87 m	3.48 s	10.5 s	17.4 s
100 km/h	62.1 mph	1.15 km/h	0.714 mph	31.9 cm/s	1.59 m	3.19 m	3.14 s	9.41 s	15.7 s
110 km/h	68.4 mph	1.26 km/h	0.785 mph	35.1 cm/s	1.75 m	3.51 m	2.85 s	8.55 s	14.3 s
120 km/h	74.6 mph	1.38 km/h	0.856 mph	38.3 cm/s	1.91 m	3.83 m	2.61 s	7.84 s	13.1 s
130 km/h	80.8 mph	1.49 km/h	0.928 mph	41.5 cm/s	2.07 m	4.15 m	2.41 s	7.23 s	12.1 s
140 km/h	87.0 mph	1.61 km/h	1.00 mph	44.7 cm/s	2.23 m	4.47 m	2.24 s	6.72 s	11.2 s
150 km/h	93.2 mph	1.72 km/h	1.07 mph	47.8 cm/s	2.39 m	4.78 m	2.09 s	6.27 s	10.5 s
160 km/h	99.4 mph	1.84 km/h	1.14 mph	51.0 cm/s	2.55 m	5.10 m	1.96 s	5.88 s	9.80 s
170 km/h	106 mph	1.95 km/h	1.21 mph	54.2 cm/s	2.71 m	5.42 m	1.84 s	5.53 s	9.22 s
180 km/h	112 mph	2.07 km/h	1.28 mph	57.4 cm/s	2.87 m	5.74 m	1.74 s	5.23 s	8.71 s
190 km/h	118 mph	2.18 km/h	1.36 mph	60.6 cm/s	3.03 m	6.06 m	1.65 s	4.95 s	8.25 s
200 km/h	124 mph	2.30 km/h	1.43 mph	63.8 cm/s	3.19 m	6.38 m	1.57 s	4.70 s	7.84 s
210 km/h	130 mph	2.41 km/h	1.50 mph	67.0 cm/s	3.35 m	6.70 m	1.49 s	4.48 s	7.46 s
220 km/h	137 mph	2.53 km/h	1.57 mph	70.2 cm/s	3.51 m	7.02 m	1.43 s	4.28 s	7.13 s
230 km/h	143 mph	2.64 km/h	1.64 mph	73.4 cm/s	3.67 m	7.34 m	1.36 s	4.09 s	6.82 s
240 km/h	149 mph	2.76 km/h	1.71 mph	76.6 cm/s	3.83 m	7.66 m	1.31 s	3.92 s	6.53 s
250 km/h	155 mph	2.87 km/h	1.78 mph	79.7 cm/s	3.99 m	7.97 m	1.25 s	3.76 s	6.27 s



Speed/Distance/Time

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1 : 160

Prototype Speed		Scale Speed		Model speed	Distance in		Time to travel		
					5 sec	10 sec	1 m	3 m	5 m
10 km/h	6.21 mph	0.0625 km/h	0.0388 mph	1.74 cm/s	8.7 cm	17 cm	57.6 s	2:53 min	4:48 min
20 km/h	12.4 mph	0.125 km/h	0.0777 mph	3.47 cm/s	17 cm	35 cm	28.8 s	1:26 min	2:24 min
30 km/h	18.6 mph	0.188 km/h	0.117 mph	5.21 cm/s	26 cm	52 cm	19.2 s	57.6 s	1:36 min
40 km/h	24.9 mph	0.250 km/h	0.155 mph	6.94 cm/s	35 cm	69 cm	14.4 s	43.2 s	1:12 min
50 km/h	31.1 mph	0.313 km/h	0.194 mph	8.68 cm/s	43 cm	87 cm	11.5 s	34.6 s	57.6 s
60 km/h	37.3 mph	0.375 km/h	0.233 mph	10.4 cm/s	52 cm	1.04 m	9.60 s	28.8 s	48.0 s
70 km/h	43.5 mph	0.438 km/h	0.272 mph	12.2 cm/s	61 cm	1.22 m	8.23 s	24.7 s	41.1 s
80 km/h	49.7 mph	0.500 km/h	0.311 mph	13.9 cm/s	69 cm	1.39 m	7.20 s	21.6 s	36.0 s
90 km/h	55.9 mph	0.56 km/h	0.350 mph	15.6 cm/s	78 cm	1.56 m	6.40 s	19.2 s	32.0 s
100 km/h	62.1 mph	0.63 km/h	0.388 mph	17.4 cm/s	87 cm	1.74 m	5.76 s	17.3 s	28.8 s
110 km/h	68.4 mph	0.69 km/h	0.427 mph	19.1 cm/s	95 cm	1.91 m	5.24 s	15.7 s	26.2 s
120 km/h	74.6 mph	0.75 km/h	0.466 mph	20.8 cm/s	1.04 m	2.08 m	4.80 s	14.4 s	24.0 s
130 km/h	80.8 mph	0.81 km/h	0.505 mph	22.6 cm/s	1.13 m	2.26 m	4.43 s	13.3 s	22.2 s
140 km/h	87.0 mph	0.88 km/h	0.54 mph	24.3 cm/s	1.22 m	2.43 m	4.11 s	12.3 s	20.6 s
150 km/h	93.2 mph	0.94 km/h	0.58 mph	26.0 cm/s	1.30 m	2.60 m	3.84 s	11.5 s	19.2 s
160 km/h	99.4 mph	1.00 km/h	0.62 mph	27.8 cm/s	1.39 m	2.78 m	3.60 s	10.8 s	18.0 s
170 km/h	106 mph	1.06 km/h	0.66 mph	29.5 cm/s	1.48 m	2.95 m	3.39 s	10.2 s	16.9 s
180 km/h	112 mph	1.13 km/h	0.70 mph	31.3 cm/s	1.56 m	3.13 m	3.20 s	9.60 s	16.0 s
190 km/h	118 mph	1.19 km/h	0.74 mph	33.0 cm/s	1.65 m	3.30 m	3.03 s	9.09 s	15.2 s
200 km/h	124 mph	1.25 km/h	0.78 mph	34.7 cm/s	1.74 m	3.47 m	2.88 s	8.64 s	14.4 s
210 km/h	130 mph	1.31 km/h	0.82 mph	36.5 cm/s	1.82 m	3.65 m	2.74 s	8.23 s	13.7 s
220 km/h	137 mph	1.38 km/h	0.85 mph	38.2 cm/s	1.91 m	3.82 m	2.62 s	7.85 s	13.1 s
230 km/h	143 mph	1.44 km/h	0.89 mph	39.9 cm/s	2.00 m	3.99 m	2.50 s	7.51 s	12.5 s
240 km/h	149 mph	1.50 km/h	0.93 mph	41.7 cm/s	2.08 m	4.17 m	2.40 s	7.20 s	12.0 s
250 km/h	155 mph	1.56 km/h	0.97 mph	43.4 cm/s	2.17 m	4.34 m	2.30 s	6.91 s	11.5 s