

West Coast Rally Association - Navigators Sheet

Kms /Hour	Sec/ Km	Kms /Hour	Min/ Km	Cents	Sec	
19	189.5	19	3.158	0.02	1	Time = $\frac{\text{Distance} \times 60}{\text{Average Speed}}$ Odo Factor = $\frac{\text{Odo Distance}}{\text{Rally Distance}}$ Odo Speed = Rally Speed x Factor Odo Distance = Rally Distance x Factor
20	180.0	20	3.000	0.03	2	
21	171.4	21	2.857	0.05	3	
22	163.6	22	2.727	0.07	4	
23	156.5	23	2.609	0.08	5	
24	150.0	24	2.500	0.10	6	
25	144.0	25	2.400	0.12	7	100th/minute = cents = seconds X 1.6667 or use conversion from table at left Cents = Secs 0.38 cents = 23 seconds Secs = Cents 17 seconds = 0.28 cents
26	138.5	26	2.308	0.13	8	
27	133.3	27	2.222	0.15	9	
28	128.6	28	2.143	0.17	10	
29	124.1	29	2.069	0.18	11	
30	120.0	30	2.000	0.20	12	
31	116.1	31	1.935	0.22	13	Speed = Rate In Table to Left Sec/kilometer = find units/hour (avg speed) and use sec/unit as # of seconds to do each Km at the posted average speed Example Average speed = 50 Kph 50 Kph = 72 sec/kilometer each 1/10 kilometer takes 7.2 seconds - makes it easy to pencil in incrementals between instructions to keep driver on time
32	112.5	32	1.875	0.23	14	
33	109.1	33	1.818	0.25	15	
34	105.9	34	1.765	0.27	16	
35	102.9	35	1.714	0.28	17	
36	100.0	36	1.667	0.30	18	
37	97.3	37	1.622	0.32	19	
38	94.7	38	1.579	0.33	20	
39	92.3	39	1.538	0.35	21	
40	90.0	40	1.500	0.37	22	
41	87.8	41	1.463	0.38	23	
42	85.7	42	1.429	0.40	24	
43	83.7	43	1.395	0.42	25	
44	81.8	44	1.364	0.43	26	
45	80.0	45	1.333	0.45	27	
46	78.3	46	1.304	0.47	28	
47	76.6	47	1.277	0.48	29	
48	75.0	48	1.250	0.50	30	
49	73.5	49	1.224	0.52	31	Perfect time to travel 0.00 avg speed = 45 Kmh 2.73 avg speed = 50 Kmh 4.14 avg speed = 60 Kmh 6.25 end of section Calcs Time = (distance X 60) / avg speed 3.640 = (0.00 - 2.73) x 60 / 45 1.692 = (4.14 - 2.73) x 60 / 50 2.110 = (6.25 - 4.14) x 60 / 60 7.442 min = time to do 6.25 Kms 7.442 min = 00:07:27 (hh:mm:ss)
50	72.0	50	1.200	0.53	32	
51	70.6	51	1.176	0.55	33	
52	69.2	52	1.154	0.57	34	
53	67.9	53	1.132	0.58	35	
54	66.7	54	1.111	0.60	36	
55	65.5	55	1.091	0.62	37	
56	64.3	56	1.071	0.63	38	
57	63.2	57	1.053	0.65	39	
58	62.1	58	1.034	0.67	40	
59	61.0	59	1.017	0.68	41	
60	60.0	60	1.000	0.70	42	
61	59.0	61	0.984	0.72	43	
62	58.1	62	0.968	0.73	44	
63	57.1	63	0.952	0.75	45	
64	56.3	64	0.938	0.77	46	
65	55.4	65	0.923	0.78	47	
66	54.5	66	0.909	0.80	48	
67	53.7	67	0.896	0.82	49	Calcs Time = (distance X 60) / avg speed 3.640 = (0.00 - 2.73) x 60 / 45 1.692 = (4.14 - 2.73) x 60 / 50 2.110 = (6.25 - 4.14) x 60 / 60 7.442 min = time to do 6.25 Kms 7.442 min = 00:07:27 (hh:mm:ss)
68	52.9	68	0.882	0.83	50	
69	52.2	69	0.870	0.85	51	
70	51.4	70	0.857	0.87	52	
71	50.7	71	0.845	0.88	53	
72	50.0	72	0.833	0.90	54	
73	49.3	73	0.822	0.92	55	
74	48.6	74	0.811	0.93	56	
75	48.0	75	0.800	0.95	57	
76	47.4	76	0.789	0.97	58	
77	46.8	77	0.779	0.98	59	
78	46.2	78	0.769	1.00	60	