

HOW FAR AHEAD (OR BEHIND) YOU NEED (OR CAN AFFORD) TO BE TO BEAT THE OPPOSITION
(times in minutes to 2 decimal places, based on one hour elapsed time for the faster boat)

	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00
8.00	-	0.63	1.20	1.78	2.45	3.05	3.67	4.38	5.02	5.68	6.44	7.12	7.82	8.63	9.36	10.11	10.97	11.75	12.55	13.47	14.31	15.17	16.16	17.07	17.99
8.50		-	0.56	1.14	1.80	2.40	3.01	3.71	4.35	5.00	5.75	6.43	7.12	7.92	8.64	9.38	10.23	11.01	11.80	12.71	13.54	14.39	15.37	16.27	17.18
9.00			-	0.57	1.22	1.82	2.42	3.12	3.75	4.39	5.13	5.81	6.49	7.28	8.00	8.73	9.58	10.34	11.13	12.03	12.86	13.70	14.67	15.56	16.46
9.50				-	0.65	1.24	1.84	2.52	3.15	3.79	4.52	5.19	5.87	6.65	7.36	8.09	8.92	9.68	10.46	11.36	12.17	13.01	13.97	14.84	15.74
10.00					-	0.58	1.18	1.86	2.50	3.13	3.86	4.52	5.19	5.96	6.67	7.39	8.21	8.97	9.74	10.62	11.43	12.25	13.21	14.07	14.96
10.50						-	0.59	1.26	1.88	2.50	3.22	3.87	4.54	5.30	6.00	6.71	7.53	8.28	9.04	9.92	10.71	11.53	12.47	13.33	14.21
11.00							-	0.67	1.25	1.87	2.58	3.23	3.89	4.64	5.33	6.04	6.85	7.59	8.34	9.21	10.00	10.81	11.74	12.59	13.46
11.50								-	0.60	1.21	1.92	2.55	3.21	3.96	4.64	5.34	6.14	6.87	7.62	8.47	9.26	10.06	10.98	11.82	12.68
12.00									-	0.61	1.30	1.94	2.58	3.32	4.00	4.69	5.48	6.21	6.95	7.80	8.57	9.36	10.28	11.11	11.96
12.50										-	0.69	1.32	1.96	2.69	3.36	4.04	4.83	5.54	6.28	7.12	7.89	8.67	9.58	10.40	11.24
13.00											-	0.62	1.28	2.01	2.67	3.34	4.12	4.83	5.55	6.38	7.14	7.92	8.81	9.63	10.46
13.50												-	0.63	1.35	2.00	2.67	3.44	4.14	4.85	5.68	6.43	7.20	8.08	8.89	9.72
14.00													-	0.71	1.36	2.02	2.78	3.48	4.18	5.00	5.74	6.50	7.38	8.18	9.00
14.50														-	0.64	1.29	2.05	2.73	3.43	4.24	4.97	5.72	6.59	7.38	8.19
15.00															-	0.65	1.39	2.07	2.76	3.56	4.29	5.03	5.89	6.67	7.47
15.50																-	0.74	1.41	2.09	2.88	3.60	4.34	5.18	5.96	6.75
16.00																	-	0.66	1.34	2.12	2.83	3.55	4.39	5.16	5.94
16.50																		-	0.67	1.44	2.14	2.86	3.69	4.44	5.22
17.00																			-	0.76	1.46	2.17	2.99	3.73	4.50
17.50																				-	0.69	1.39	2.20	2.93	3.69
18.00																					-	0.69	1.49	2.22	2.97
18.50																						-	0.79	1.51	2.25
19.00																							-	0.71	1.44
19.50																								-	0.72
20.00																									-

SELECT COLUMN BASED ON SLOWER BOAT HANDICAP

SELECT ROW BASED ON FASTER BOAT HANDICAP

MULTIPLY TIME DIFFERENCE VALUE (from cell in table) BY FASTER BOAT ELAPSED TIME (in minutes) DIVIDED BY 60

1. You are the faster boat on 12 min/hr. The opposition is on 14 min/hr. How far ahead do you need to be?

- find the column for 14 min/hr and go down to the row for 12 min/hr - the value is 2.58
- if you have been sailing for 90 minutes then you need to be at least $90/60 \times 2.58$ minutes ahead
- i.e. 3.87 minutes (3 mins 52 secs)

2. You are the slower boat on 18 min/hr. The opposition is on 15 min/hr. How far behind can you afford to be?

- find the column for 18 min/r and go down to the row for 15 min/hr - the value is 4.29
- if the opposition has been sailing for 120 minutes then you need to be no more than $120/60 \times 4.29$ minutes behind
- i.e. 8.58 minutes (8 mins 35 secs)