



# Different Laps for Different Competitors

TopYacht provides 2 methods for producing sensible results when comparing competitors who have completed different numbers of laps of a common course.

## Important Notes:

- Under normal circumstances it is **essential** that the Finish Line is also Start Line (there is an exception to this rule - see "[Lap Racing On A Fixed Course - Course Specific Handicaps](#)"). If this necessary rule is not followed then a competitor sailing 3 laps has not sailed exactly  $\frac{3}{4}$  as far as a competitor who sailed 4 laps, etc. and hence the scaling maths is incorrect.
- The Laps must be around the identical course. They might all be windward returns, or all be triangles. You cannot have some competitors complete W,T,W<sup>1</sup> as "3" laps then another complete W,T,W,T as "4" laps as the "laps" are not identical. If you wish to use windward returns and triangles, then "one lap" must be **one of each!**
- TY calculates all results as if each competitor sailed 4 laps. So, for those who sailed 5 laps their corrected time will be scaled down by  $\frac{4}{5}$  while those who sailed 3 laps will have their time scaled up by  $\frac{4}{3}$ . Put another way, for each competitor TY calculates the average time to complete one lap then multiplies this by 4.
- The BCHs take the number of laps into account so you can develop handicaps across competitors that sail a different number of laps.
- Calculation of handicaps within a total fleet (i.e. across Divisions) **only works** if the handicaps are set up to flow across Divisions so for example the faster competitors are in Div 1 with handicaps of  $\geq 0.850$ , Div 2 is for handicaps  $\geq 0.750$  but  $< 0.850$  and Div 3 is  $< 0.750$ . Then the number of laps must reflect the handicap with faster competitors (i.e. Div 1) doing more laps etc

## Option 1: Different Laps per Division.

From the main menu use step 2 "Select Set Up Race"

- Check the "Different Laps per Division" box.
- Then provide a number of laps per Division in the "Laps" column of the Starts table.

The screenshot shows the 'Select Set Up Race' window. On the left, there are controls for Race No. (6), Race Date (20/10/02), Starts spacing (0), Assign A Course Number (unchecked), and Use for HCing (checked). On the right, the date is 31/10/02 14:00. Below the date is a table with columns: START No, HR, MN, SC, DIV, LAPS. The table contains three rows: (1, 16, 30, 00, 1, 4), (2, 16, 30, 00, 2, 3), and (3, 16, 30, 00, 3, 2). A red arrow points to the LAPS column. Below the table is an 'Add New Start' button and a label 'Estimated Race Duration for HCing Mins'.

START No	HR	MN	SC	DIV	LAPS
1	16	30	00	1	4
2	16	30	00	2	3
3	16	30	00	3	2

Enter finish times and calculate results as normal.

<sup>1</sup> W-T-W describes the course sailed. In this case it is windward-leeward / triangle - windward-leeward

## Option 2: Where competitors within a division complete different numbers of laps.

Set this up exactly as per option 1 above.

- Enter the finish times as per normal.
- Then go to the "View Alter Finish times /Positions" screen. For those competitors who completed a different number of laps to that indicated for the Division, then provide the actual lap count in the appropriate column of the finish times table. In the example below a Div 2 competitor completed 2 laps rather than the 3 expected of Div 2 (see illustration above).
- Then process as per normal.

Starts: Div1 at 16:30:00; Div2 at 16:30:00; Div3 at 1

	<i>...</i>	<i>MIN</i>	<i>SC</i>	<i>DidNot</i>	<i>LAPS</i>	<i>Sail No</i>	<i>Class</i>	<i>E</i>
	17	24	40			M271	D1	E
▶	17	32	12			TF57	D3	Sk
	17	39	12		2	W111	D2	SI
	17	40	40			26	D3	W

## Further Reading

[Different Lap Racing on a Fixed Course](#)