

Question of the day

Day 12

16 Donald swims 3 lengths of a swimming pool in 93 seconds.

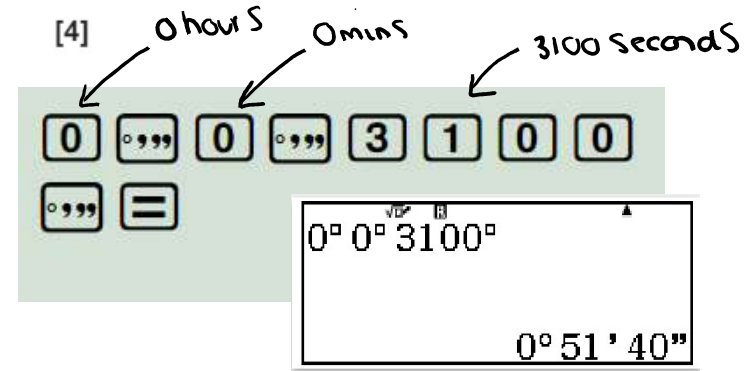
(a) Use this information to show that he could swim 100 lengths in under 55 minutes.

$$\div 3 \quad \left\{ \begin{array}{l} 3 \text{ lengths} = 93 \text{ seconds} \\ 1 \text{ length} = 31 \text{ seconds} \end{array} \right.$$

$$\times 100 \quad \left\{ \begin{array}{l} 100 \text{ lengths} = 3100 \text{ seconds} \end{array} \right.$$

↑ use the time function on your calculator

so he can swim it under 55 mins.



→ means 51 mins and 40 seconds

(b) What assumption did you make in part (a)?

..... That he swims each length in the same time [1]

(c) Donald tries to swim the 100 lengths in under 55 minutes.

Suggest one reason why he might not achieve this.

..... He might not be able to swim 100 lengths at that pace, he might
..... slow down [1]