



Sample Dive Plan Calculations

The assumption is you will always start as a Current Tissue Code (CTC) A, diving at sea level (which means Level 1 tables) and **UNLESS STATED OTHERWISE** using normal air to breathe (21%). The first 5 questions are simply looking up data – the latter 5 actual dive planning.

Question 1

What is your Surfacing Code (SC) if you dive for 37 mins at 12 mtrs?

Question 2

How long can you dive to 21 mtrs if you want end your dive on Surfacing Code E

Question 3

Diving on Nitrox 32%, what is the maximum depth you could go to if you wanted a no-deco stop 65 mins dive

Question 4

Assuming you have completed your first dive and your Surface Code is D, what would be your new Current Tissue Code if you entered the water again 90 mins later?

Question 5

Assuming you have completed your first dive and your Surface Code is F, what Surface Interval (SI) is needed to reduce your CTC to B?

Question 6

- Dive 1 – 18 mtrs for 20 mins
- Surface Interval 2 hrs
- Dive 2 – 15 mtrs
- What is the maximum no stop time for dive 2?

Question 7

- Dive 1 – 20 mtrs for 35 mins
- Surface Interval – 80 mins

- Dive 2 – 25 mins with a max. of 3 mins deco stops
- What maximum depth can be dived?

Question 8

- Dive 1 - 19 mtrs for 30 mins
- Dive 2 – 15 mtrs for 25 mins
- What minimum Surface Interval is required to be able to complete dive 2 as a no-deco stop dive?

Question 9

You enter the water at 8.30am and descend to 18 mtrs. You reach the surface at 9.20am and decide to have a coffee. Another buddy pairing on the same dive trip asks you to help them into the water as they're carrying heavy camera equipment. Having waded in and out again – another coffee beckons. Your own buddy who has recently qualified as Ocean Diver, now wants to get back in the water so after a pee break (most important!!), you kit up and are ready to enter the water at 10.25 (your dive plan allowed for entry at 10.30). Your dive objective is a small fishing boat lying on its side in 12 mtrs of water and you need at least 15 mins to complete your trip all the way round.

Can you do this dive plan? If not, why not – and what would you need to alter do to be able to complete it?

Question 10

Diving on Nitrox 36%, you carry out your first dive to 30 mtrs for 50 mins. You plan to do a second dive for 15 mins on the same site to see whatever you missed on the first. But to do the second dive AND try and miss the rush-hour traffic home, you realise that you can only afford an 80 min Surface Interval.

What deco stops would you have to make on each dive?