



Dive Computer Quiz

There are many brands of dive computers using different algorithms, however there are some common threads in using dive computers. This quiz is trying to highlight them and to make you focus on **your** dive computer. Unless you are using the same dive computer as someone else, many of the answers to the questions in this quiz will be different between different people.

1. Describe the physiology behind the development of decompression illness in a diver.
2. What do you understand by the term M value?
3. Decompression algorithms use a variable number of tissue compartments.
 - a. What is a tissue compartment?
 - b. How are they differentiated?
 - c. Do they relate to specific biological tissues?
4. You are getting older, feeling the cold somewhat more and a bit less fit than you would like to be. You want to increase the conservatism of your dive computer.
 - a. Describe how this is done for **your** dive computer.
 - b. Do you know how to make this change on **your** dive computer?
5. You are planning to dive in one of the lakes on the Atherton Tablelands in Queensland.
 - a. What do you need to do before diving there?
 - b. What changes do you need to make to **your** dive computer before diving?
 - c. Do you know how to make this change on **your** dive computer?
6. You notice after several dive trips involving several days of repetitive diving that your “no fly” time shown on your dive computer is well less than 24 hours. What do you do when booking a return flight after a multi-day trip that you are planning in the future?
7. If your ascent rate has been too fast or you have omitted some decompression, do you know how this is shown on **your** dive computer screen?

8. On the second last day of a multi day dive trip, you miss part of your deco and safety stops due to a cloud of bubbles coming up from a group of divers below floating you to the surface rapidly (it can and does happen!). What should you do?
9. Your buddy has their dive computer max pO_2 set at 1.6 atm while yours is at 1.4 atm. What do you think of this?
10. Give 4 reasons why you should turn your dive computer on prior to entering the water?
11. For those of you with Shearwater dive computers, what does the gradient factor 40/85 mean?
 - a. Are you happy with that? If not, what would you change it to and why?
12. List the pros and cons of a wrist worn dive computer and a console dive computer.
13. True or false? I know I can get bent, even if I have followed my dive computer faithfully.