



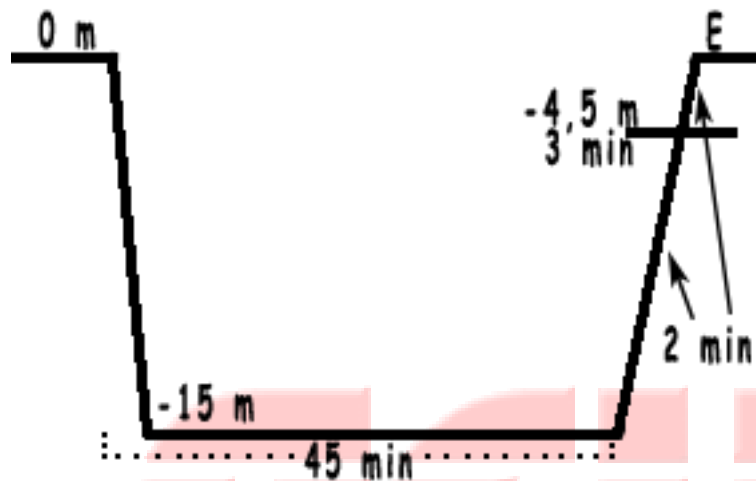
Open Water Diver

Part 6 (V)
Table exercises solutions

Let's see the solutions to the proposed exercises. In each exercise, we will answer the questions posed and we will draw the sketch of the dives with all the data already included. Compare our answers with the ones you have proposed.

Exercise 1

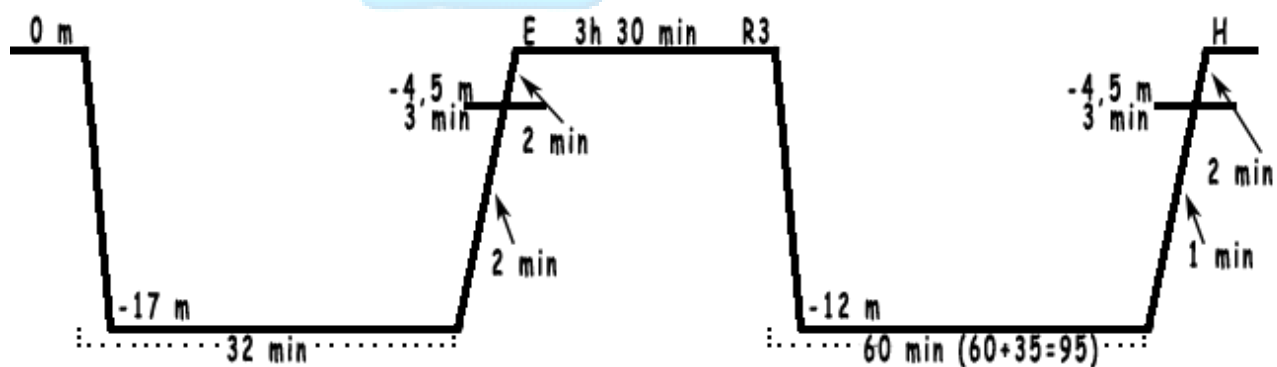
We do a simple dive to 15 m of depth for 45 minutes. Indicate:



Decompression or safety stops?	Safety
Depth and time of the stop	-4,5 m 3 min
Total time of ascent	7 min (2+3+2)
Exit residual nitrogen group	E

Exercise 2

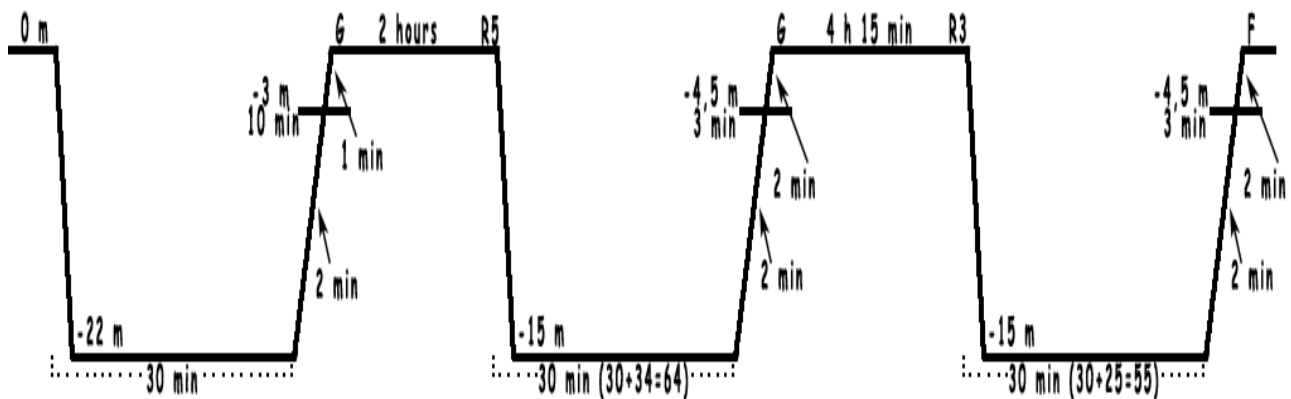
We do a simple dive to 17 m of depth for 32 min, after three and a half hours on the surface we do another dive to 12 m of depth for 60 min. Indicate for both:



Decompression or safety stops?	Both safety
Depth and time of the stop	-4,5 m 3 min each
Total time of ascent	1st 7 min (2+3+2); 2nd 6 min (1 + 3 + 2)
Exit residual nitrogen group	1st E; 2nd H
Entry residual nitrogen group for the 2 nd dive	R3

Exercise 3

We do a simple dive to 22 m of depth for 30 minutes, after 2 hours on the surface we do another dive to 15 m for 30 min, 4 hours and 15 min later we do a third dive to 15 m for 30 min. Indicate for the three dives:



Decompression or safety stops?

Depth and time of the stop

Total time of ascent

Exit residual nitrogen group

Entry residual nitrogen group in successive dives

1st deco; 2nd safety; 3rd safety

1st -3 m 10 min; 2nd -4.5 m 3 min; 3rd -4.5 m 3min

1st 13 min (2+10+1); 2nd 7 min (2 + 3 + 2);

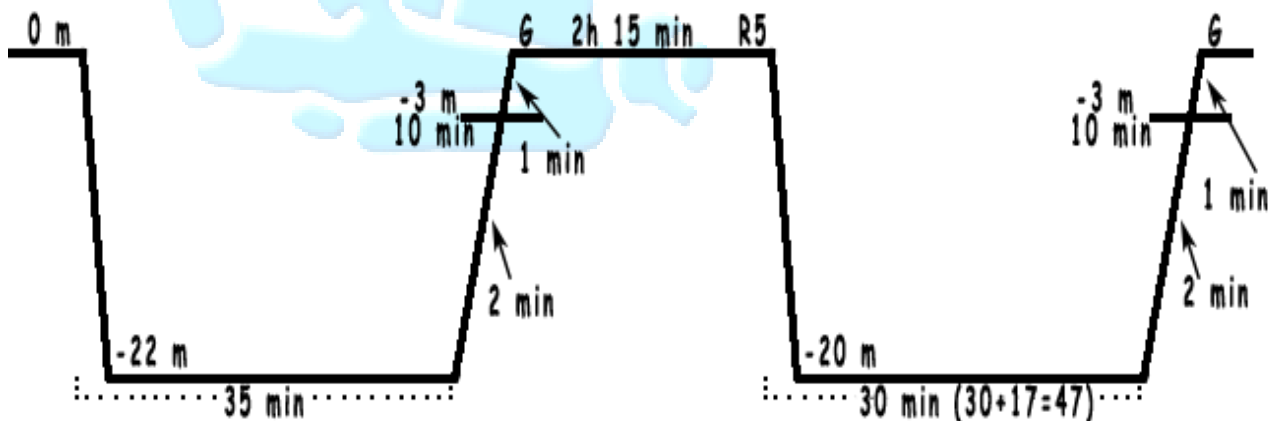
3rd 7 min (2 + 3 + 2)

1st G; 2nd G; 3rd F

2nd R5; 3rd R3

Exercise 4

We do a simple dive to 22 m for 35 min, 2 h 15 min after exiting from that first dive we dive again to 20 m for 30 min. Indicate for both:



Decompression or safety stops?

Depth and time of the stop

Total time of ascent

Exit residual nitrogen group

Entry residual nitrogen group for the second dive

1st deco; 2nd deco

1st 10 min at 3 m; 2nd 10 min at 3 m

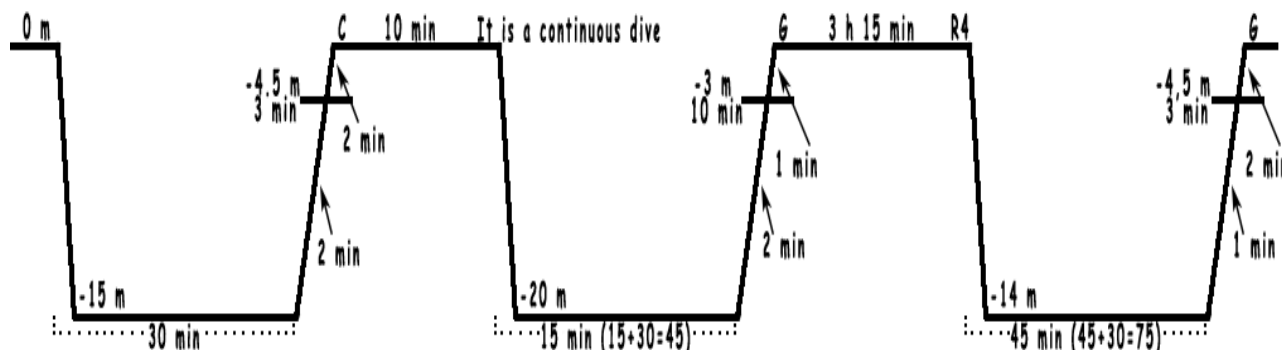
1st 13 min (2+10+1); 2nd 13 min (2+10+1)

1st G; 2nd G

R5

Exercise 5

We do a simple dive to 15 m for 30 min, 10 minutes later we go down again to 20 m for 15 minutes and 3 h 15 min after we go down once more to 14 meters to dive the maximum possible time without going into decompression. Indicate for the three dives:



Decompression or safety stops?

Depth and time of the stop

Total time of ascent

Exit residual nitrogen group

Entry residual nitrogen group for the 2nd and 3rd dives

Bottom time in the third dive

1st safety; 2nd deco; 3rd safety

1st 4.5 m 3 min; 2nd 3 m 10 min; 3rd 4.5 m 3 min

1st 7 min (2+3+2); 2nd 13 min (2+10+1);

3rd 6 min (1+3+2)

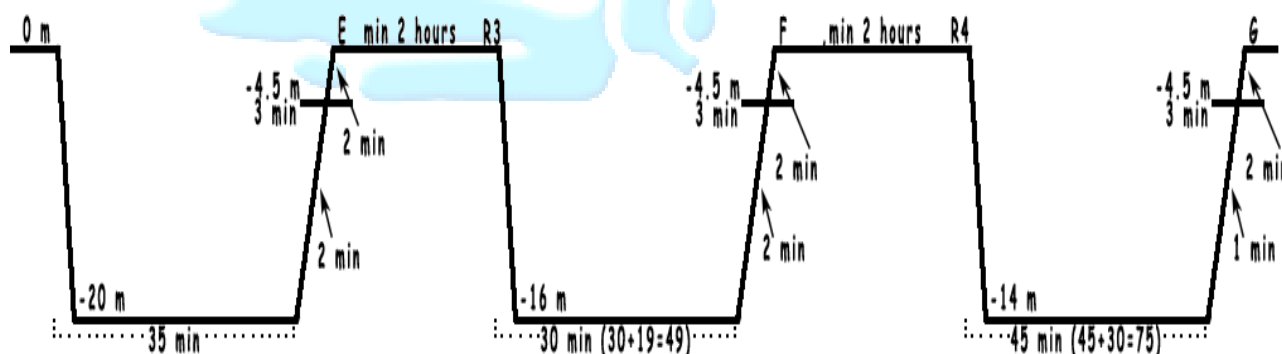
1 st C (data not necessary); 2nd G; 3rd G

2 nd not necessary; 3rd R4

45 min (maximum possible without deco)

Exercise 6

We want to do 3 dives without going into mandatory decompression stops in any of the 3. The first to 20 meters for the longest possible time without mandatory decompression stops, the second to 16 m for 30 min and the third to 14 m for 45 min. Indicate for the three:



Bottom time of the first dive

Decompression or safety stops?

Depth and time of the stop

Total time of ascent

Minimum surface intervals

Exit residual nitrogen group

Entry residual nitrogen group for the 2nd and 3rd dives

35 min

1st, 2nd and 3rd safety, as requested

1st, 2nd and 3rd 4.5 m 3 min

1st 7 min (2+3+2); 2nd 7 min (2+3+2);

3rd 6 min (1+3+2)

1st interval 2 hours; 2nd interval 2 hours

1st E; 2nd F; 3rd G

2nd R3; 3rd R4