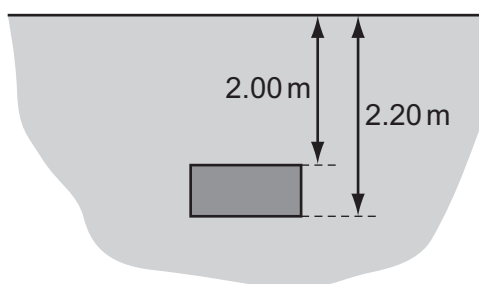


- 22 Which row correctly describes the ordering and motion of the molecules in water and in ice when both are at a temperature of 0°C ?

	ordering	motion
A	a regular pattern of molecules in ice but not in water	molecules in both ice and water have the same average speed
B	a regular pattern of molecules in ice but not in water	molecules in ice travel more slowly than those in water
C	a regular pattern of molecules in both ice and water	molecules in ice travel more slowly than those in water
D	a regular pattern of molecules in both ice and water	molecules in both ice and water have the same average speed

- 23 The diagram shows a rectangular block of mass 8.2 kg immersed in sea water of density $1.10 \times 10^3 \text{ kg m}^{-3}$.



What is the difference in pressure between the top and bottom surfaces of the block?

- A** $2.2 \times 10^2 \text{ Pa}$
- B** $2.2 \times 10^3 \text{ Pa}$
- C** $1.8 \times 10^4 \text{ Pa}$
- D** $2.3 \times 10^4 \text{ Pa}$

Space for working