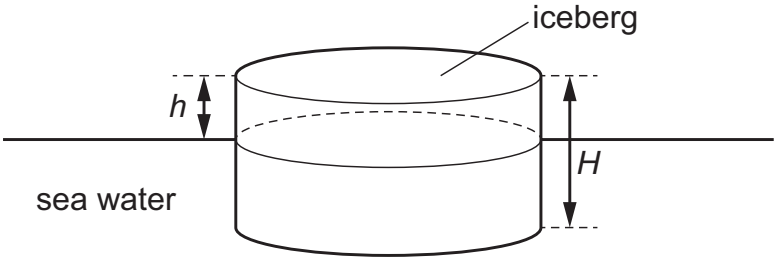
13 A cylindrical iceberg of height *H* floats in sea water. The top of the iceberg is at height *h* above the surface of the water.



The density of ice is ρ_i and the density of sea water is ρ_w.

What is the height *h* of the iceberg above the sea water?

A $\left(1-\frac{\rho_i}{\rho_w}\right)H$ **B** $\left(\frac{\rho_i}{\rho_w}-1\right)H$ **C** $\frac{\rho_w}{\rho_i}H$ **D** $\frac{\rho_i}{\rho_w}H$