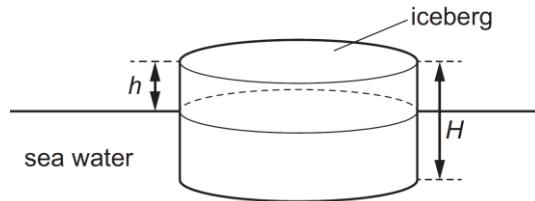


- 7 A cylindrical iceberg of height  $H$  floats in sea water. The top of the iceberg is at height  $h$  above the surface of the water.



The density of ice is  $\rho_i$  and the density of sea water is  $\rho_w$ .

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

$$\frac{\rho_i}{\rho_w}H$$