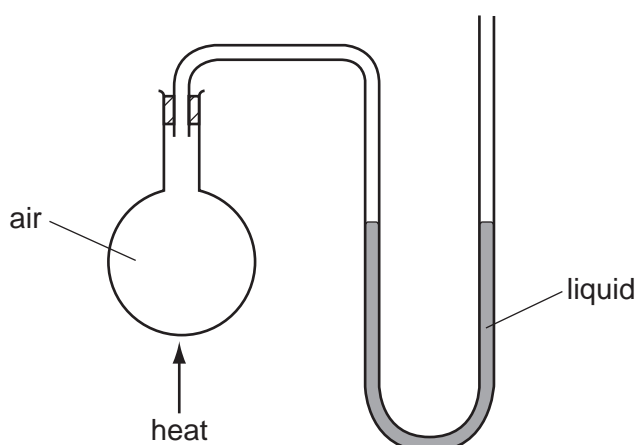


- 18 The diagram shows a flask connected to a U-tube containing liquid. The flask contains air at atmospheric pressure.



The flask is now gently heated and the liquid level in the right-hand side of the U-tube rises through a distance h . The density of the liquid is ρ .

What is the increase in pressure of the heated air in the flask?

- A $h\rho$ B $\frac{1}{2} h\rho g$ C $h\rho g$ D $2h\rho g$
- 19 Four materials are formed into rods of the same dimensions.
- At room temperature, which can sustain the largest plastic deformation?
- A the ductile material aluminium
B the brittle material carbon
C the brittle material glass
D the ductile material steel

Space for working