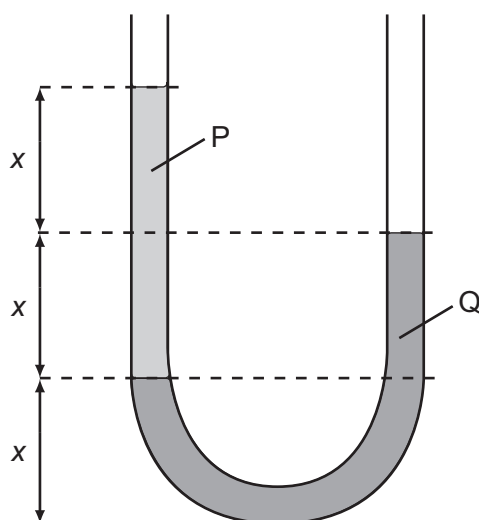


- 20 The diagram shows two liquids, labelled P and Q, which do **not** mix. The liquids are in equilibrium in an open U-tube.



What is the ratio $\frac{\text{density of P}}{\text{density of Q}}$?

- A $\frac{1}{2}$ B $\frac{2}{3}$ C $\frac{3}{2}$ D 2
- 21 Which two substances are normally both crystalline?
- A copper and diamond
B copper and glass
C diamond and glass
D diamond and rubber
- 22 The table shows a load applied to four wires and the cross-sectional area of each.

	load / N	cross-sectional area / mm ²
A	1500	0.25
B	2000	1.0
C	3000	0.56
D	5000	2.3

Which of the wires is subjected to the greatest stress?