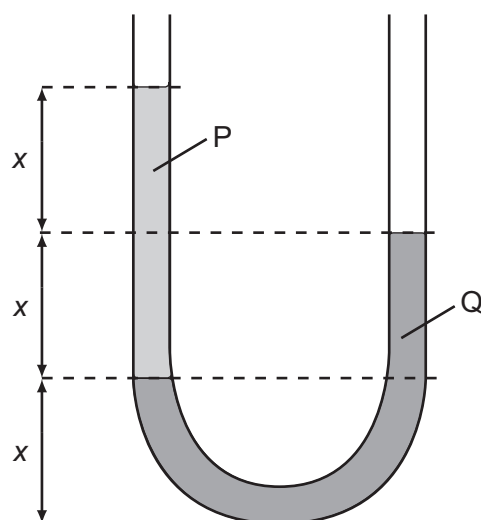**20** The diagram shows two liquids, labelled P and Q, which do **not** mix. The liquids are in equilibrium in an open U-tube.

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

A $\dfrac{1}{2}$ **B** $\dfrac{2}{3}$ **C** $\dfrac{3}{2}$ **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.

Which of the wires is subjected to the greatest stress?

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