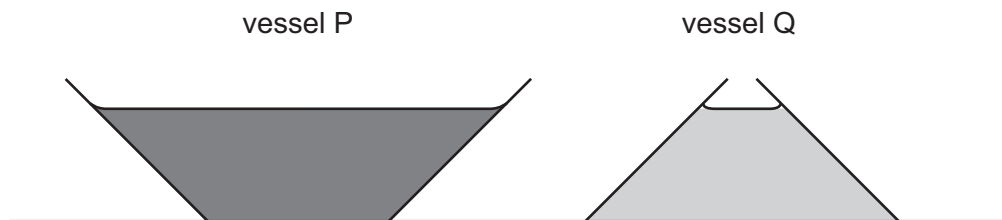


20 The diagram shows two vessels, P and Q, both with sides inclined at 45° .



Vessel P tapers outwards and vessel Q tapers inwards, as shown.

Both vessels contain a liquid. The depth of the liquid in the vessels is the same. The liquid in vessel P is twice as dense as the liquid in vessel Q.

What is the ratio $\frac{\text{pressure due to the liquid on the base of P}}{\text{pressure due to the liquid on the base of Q}}$?

A $\frac{2}{1}$

B $\frac{\sqrt{2}}{1}$

C $\frac{1}{\sqrt{2}}$

D $\frac{1}{2}$

Space for working