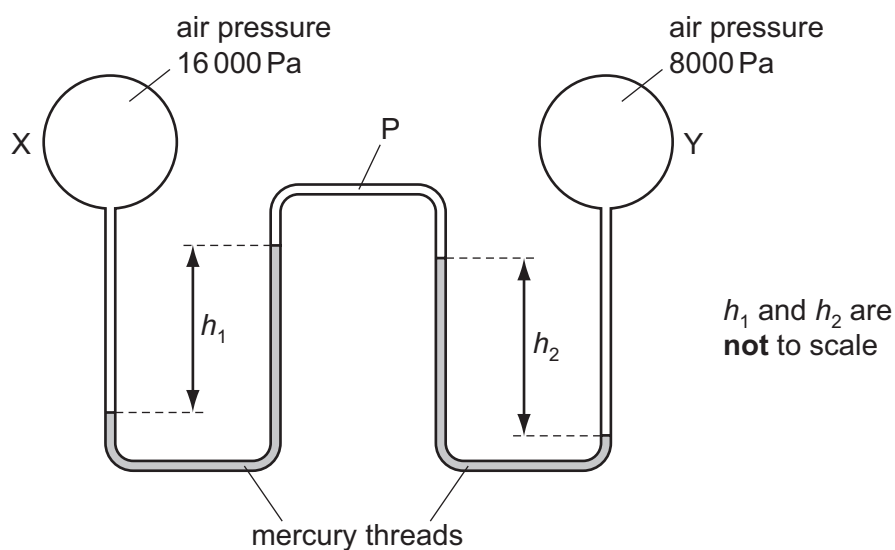


- 20 Two bulbs X and Y containing air at different pressures are connected by a tube P which contains two mercury threads.



The density of mercury is $13\,600\text{ kg m}^{-3}$.

Which pair of values of h_1 and h_2 is possible?

	h_1/cm	h_2/cm
A	4.0	2.0
B	6.0	6.0
C	12.0	18.0
D	18.0	12.0

- 21 What is the unit of the Young modulus?

A Nm^{-1} **B** Nm **C** Nm^{-2} **D** Nm^2

Space for working