13 Two containers of volumes 4.0 m^3 and 6.0 m^3 contain ideal gases at pressures of 100 Pa and 50 Pa respectively. Their temperatures are equal. The containers are joined by a tube of negligible volume so that the molecules can move from one container to the other with no change in temperature.

What is the final pressure of the gases?

A 70 Pa **B** 75 Pa **C** 80 Pa **D** 150 Pa