8 A gas at a pressure of 5.0×10^5 Pa is enclosed in a cylinder fitted with a piston.
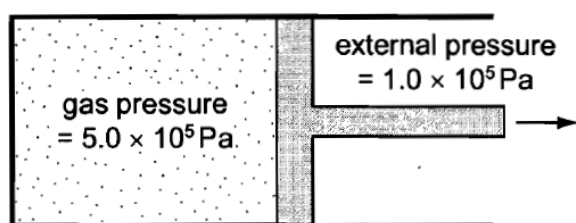

The gas expands by 4.0 m³ against a constant exernal pressure of 1.0×10^5 Pa.

How much work does the gas do against the external pressure?

A 4.0×10^5 J   **B** 12×10^5 J   **C** 16×10^5 J   **D** 20×10^5 J