

- 19** A piston in a gas supply pump has an area of  $600 \text{ cm}^2$  and it moves a distance of 40 cm during one stroke. The pump moves the gas against a fixed pressure of 5000 Pa.

How much work is done by the piston during one stroke?

- A**  $1.2 \times 10^2 \text{ J}$       **B**  $1.2 \times 10^4 \text{ J}$       **C**  $1.2 \times 10^6 \text{ J}$       **D**  $1.2 \times 10^8 \text{ J}$

**Space for working**