19 A piston in a gas supply pump has an area of 400 cm^2 and it moves a distance of 25 cm during one stroke.

The pump moves the gas against a fixed pressure of 3000 Pa.

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

A 30 J   **B** 3.0 × 10^3 J   **C** 3.0 × 10^5 J   **D** 3.0 × 10^7 J

20 A transformer has the following input and output.

	potential difference/V	current/A
input	11 000	28
output	240	1200

What is the efficiency of the transformer?

A 0.94 %   **B** 1.0 %   **C** 11 %   **D** 94 %

Space for working