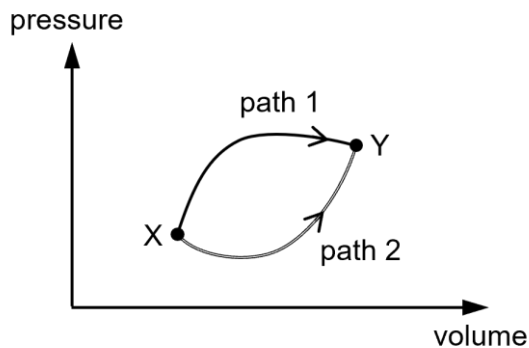


- 11 A fixed mass of gas undergoes a change from state X to Y via two different paths as shown.



In path 1, 4.0 J of work is done by the gas and there is a thermal transfer of 10 J of energy into it.

In path 2, 2.0 J of work is done by the gas.

What is the thermal transfer of energy into the gas in path 2?

- A** 4.0 J **B** 8.0 J **C** 12 J **D** 16 J

[Turn over]