

- 15** A sample of gas is compressed slowly in a metal cylinder. W is the amount of work done on the gas. During the compression, the internal energy of the gas increases by ΔU .

How much heat is transferred from the gas to the surroundings?

- A** $W + \Delta U$ **B** $W - \Delta U$ **C** $-W + \Delta U$ **D** $-W - \Delta U$

- 16** A mass attached to a string oscillates as a simple pendulum.