

- 10** A fixed mass of ideal monoatomic gas at low temperature is trapped in a container at constant pressure. The gas is then heated and the volume of the container changes so that the pressure stays at 1.00×10^5 Pa. When the gas reaches a temperature of 0.0 °C, the volume is 2.20×10^{-3} m³.

What is the total internal energy of the gas at a temperature of 50.0 °C?

- A** 60 J
- B** 130 J
- C** 330 J
- D** 390 J