

- 13** Planet Z has a mass 6.4×10^{23} kg and a diameter of 6.8×10^3 km.

Assuming helium-4 to be an ideal gas, what is the minimum temperature of the helium-4 gas for it to be able to escape from the surface of Planet Z?

- A** 2.0×10^3 K
- B** 2.1×10^3 K
- C** 4.0×10^3 K
- D** 4.1×10^3 K