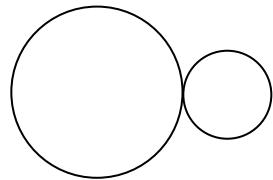


- 14** Two iron spheres of different radii are in thermal contact in a vacuum as shown.



The spheres are at the same temperature.

Which statement **must** be correct?

- A** There is no net transfer of thermal energy between the spheres.
- B** Both spheres have the same internal energy.
- C** Both spheres have the same heat capacity.
- D** The larger sphere has a greater mean internal energy per atom than the smaller sphere.

