

14 A solid X is in thermal equilibrium with a solid Y, which is at the same temperature as a third solid Z. The three bodies are of different materials and masses. Which one of the following statements is certainly correct?

- A** X and Y have the same heat capacity.
- B** Y and Z have the same internal energy.
- C** The atoms of X and Y have the same speed.
- D** There is no net transfer of energy if Y is placed in thermal contact with Z.