

16 A parachutist is falling at constant (terminal) velocity.

Which statement is **not** correct?

- A** Gravitational potential energy is converted into kinetic energy of the air.
- B** Gravitational potential energy is converted into kinetic energy of the parachutist.
- C** Gravitational potential energy is converted into thermal energy of the air.
- D** Gravitational potential energy is converted into thermal energy of the parachutist.

17 A solid object is heated from 20°C to 100°C . The object is made of a material with a specific heat capacity of $400\text{ J kg}^{-1}\text{ K}^{-1}$. The mass of the object is 2 kg . Calculate the energy transferred to the object.