

**4** An object is released from the open door of an aircraft in level flight.

It is observed that it takes three seconds for the object to reach terminal velocity.

Which statement about the motion of the object is correct?

- A** The horizontal component of its velocity is constant.
- B** The horizontal component of its acceleration is zero.
- C** The vertical component of its velocity decreases for three seconds.
- D** The vertical component of its acceleration is zero after three seconds.

