

- 13** Why does the formula $E_p = mgh$ only apply to potential energy changes just above the Earth's surface?
- A** At slightly greater distances from the Earth, the gravitational attraction of the Moon is significant.
 - B** g varies over the surface of the Earth.
 - C** h is very small compared to the radius of the Earth.
 - D** m is very small compared to the mass of the Earth.

14 The first diagram shows two blocks of mass 4.0 kg and 1.0 kg resting on a frictionless surface.