

- 13** A satellite orbits a planet at a distance $2R$ from its centre. Its gravitational potential energy is -2.1 MJ.

Another identical satellite orbits the planet at a distance $3R$ from its centre.

What is the sum of the kinetic energy and the gravitational potential energy of this second satellite?

- A** -0.70 MJ **B** -1.4 MJ **C** -2.1 MJ **D** -3.2 MJ