17 A satellite orbits a planet at a distance r from its centre. Its gravitational potential energy is –3.2 MJ.

Another identical satellite orbits the planet at a distance $2r$ from its centre.

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

A –0.40 MJ **B** –0.80 MJ **C** –1.6 MJ **D** –6.4 MJ