

8 A satellite orbits a planet at a distance r from its centre. Its kinetic energy is 3.2 MJ.

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

What is the gravitational potential energy of this second satellite?

- A** -0.80 MJ **B** -1.6 MJ **C** -3.2 MJ **D** -6.4 MJ