

- 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