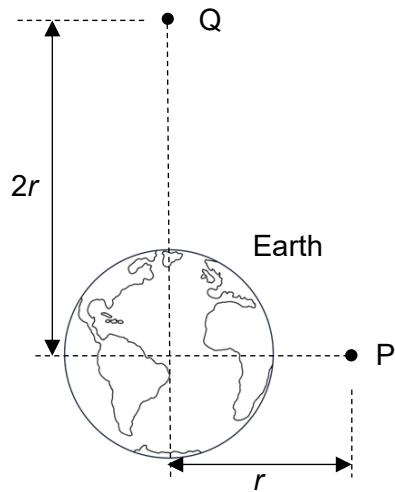


- 10** P and Q are two points above Earth's surface at distances  $r$  and  $2r$  respectively from the centre of the Earth.



The gravitational potential at P is  $-800 \text{ kJ kg}^{-1}$ . What is the gain in gravitational potential energy of a 2 kg mass when it is moved from P to Q?

**A** - 400 kJ

**B** - 200 kJ

**C** 400 kJ

**D** 800 kJ