

- 8** The radius of the Earth is  $6.371 \times 10^6$  m. The gravitational field strength on the surface of the Earth is  $9.81 \text{ N kg}^{-1}$ .

What is the gravitational potential at a point 80 000 m above the Earth surface?

- A**  $-5.0 \text{ kJ kg}^{-1}$
- B**  $-5.0 \text{ MJ kg}^{-1}$
- C**  $-62 \text{ MJ kg}^{-1}$
- D**  $-62 \text{ GJ kg}^{-1}$