

10 The Earth has a diameter of 1.3×10^7 m and spins on its axis once every 24 hours.

What is the centripetal acceleration of an object at the equator?

- A** 0.034 m s^{-2} towards the centre of the Earth
- B** 0.034 m s^{-2} away from the centre of the Earth
- C** 0.069 m s^{-2} towards the centre of the Earth
- D** 0.069 m s^{-2} away from the centre of the Earth

