6 The gravitational field strength at the surface of the Earth is g.

Another planet has the same density as the Earth, but twice the radius of the Earth.

What is the gravitational field strength at the surface of this planet?

☒ **A** $4g$

☒ **B** $2g$

☒ **C** $\dfrac{g}{2}$

☒ **D** $\dfrac{g}{4}$

(Total for Question 6 = 1 mark)