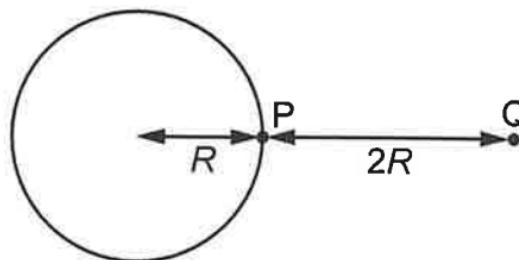


15 P is a point on the surface of a planet. The planet has radius R .

Q is a point a distance $2R$ from the surface of the planet.



What is the value of the ratio $\frac{\text{gravitational force on a mass of } 1 \text{ kg at Q}}{\text{gravitational force on a mass of } 1 \text{ kg at P}}$?

A $\frac{1}{9}$

B $\frac{1}{4}$

C $\frac{1}{3}$

D $\frac{1}{2}$

