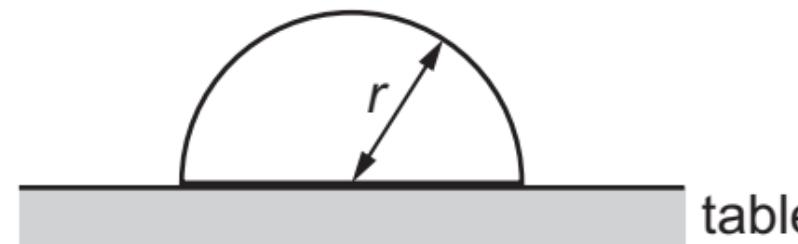


- 14 An object shaped as a hemisphere rests with its flat surface on a table. The object has radius r and density ρ .



The volume of a sphere is $\frac{4}{3} \pi r^3$.

Which average pressure does the object exert on the table?

A $\frac{1}{3} \rho r^2$

B $\frac{1}{3} \rho r^2 g$

C $\frac{2}{3} \rho r$

D $\frac{2}{3} \rho r g$