

- 14** A granite rock at the surface of the Earth has density  $\rho$ . The rock is transported to the surface of another planet.

The acceleration of free fall on the surface of the other planet is twice that on the surface of the Earth.

What is the density of the rock on the other planet?

- A**  $0.5\rho$                       **B**  $\rho$                       **C**  $2\rho$                       **D**  $4\rho$

- 15** A ball of mass  $m$  is suspended from a fixed point by a light inextensible string. The ball is released from rest with the string horizontal.