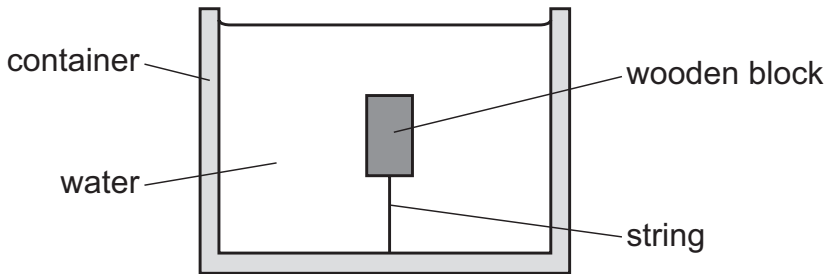


- 14 A wooden block is held stationary in a container of water using a string that is attached to both the wooden block and the bottom of the container.



The wooden block has mass m and volume V . The water has density ρ . The acceleration of free fall is g .

What is the magnitude of the force acting on the block due to the tension in the string?

A $\rho g V$

B $mg + \rho g V$

C mg

D $\rho g V - mg$