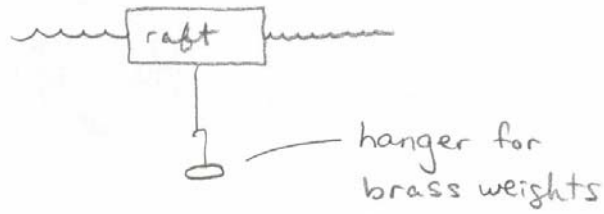


### Open-Ended Question



An unoccupied, 10 kg wooden raft made of driftwood with specific gravity 0.60 floats on the surface of a calm pond. A student under the water hangs brass (density =  $8,000 \text{ kg/m}^3$ ) masses on a light string attached to the raft, as shown in the diagram above. What minimum mass of brass will cause the raft to be entirely submerged?