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web correct answer 1850n explanation the buoyant force on the ball is simply the weight of water displaced by the ball $F_b = V_{\text{ball}} \rho_{\text{water}} g = 0.2 \text{ m}^3 \cdot 1000 \text{ kg/m}^3 \cdot 10 \text{ m/s}^2 = 2000 \text{ N}$ the force of gravity on the ball is $F_g = mg = 15 \text{ kg} \cdot 10 \text{ m/s}^2 = 150 \text{ N}$ these forces oppose each other so we can say $F_{\text{net}} = F_b - F_g = 2000 \text{ N} - 150 \text{ N} = 1850 \text{ N}$

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web the name of this upward force exerted on objects submerged in fluids is the buoyant force so why do fluids exert an upward buoyant force on submerged objects it has to do with differences in pressure between the bottom of the submerged object and the top say someone dropped a can of beans in a pool of water not again

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pressure is like an invisible friend who is always squeezing you with a big hug

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web to answer these questions you ll need to understand the concept of buoyancy a force which is exerted by a fluid on an object opposing the object s weight it is rumored that the greek philosopher and scientist archimedes around 250 b c was asked by king hiero ii to help with a problem king hiero ii had ordered a fancy golden crown

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web support your answer using appropriate physics principles b calculate the following at point b i the speed of the water ii the pressure in the pipe c a valve to the left of point a now closes off that end of the pipe the section of pipe shown is still full of water but the water is no longer flowing i

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web because a block displaces a greater volume of fluid the buoyant force on block a is greater than the buoyant force on block b because the buoyant force and gravitational force are balanced for both blocks block a must weigh more than block b

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web to trigger such your you ll need to realize that concept off buoyancy a force which has exerted due a liquid based set an go opposing the object s carry it shall reported that the greek philosopher and scientist archimedes nearly 250 b c was asked to king hiero ii the helps with a problem

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heavier than the same object held under water physical laws dictate that matter cannot be
created nor destroyed so what accounts for the apparent weight loss

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