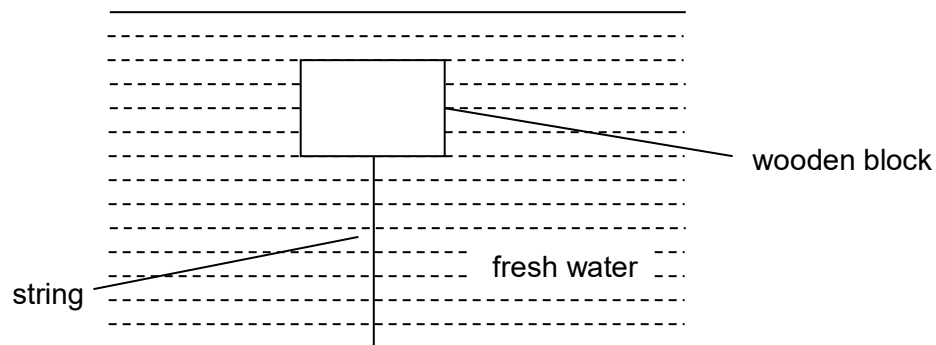**5** A wooden block of density 800 kg m^{-3} and volume 1.0 m^3 is fastened to the bottom of a freshwater pond by a string as shown below. The density of the freshwater is 1000 kg m^{-3}.

If the string suddenly breaks, what is the initial acceleration of the block?

A   0.25 m s^{-2} **B**   1.25 m s^{-2} **C**   2.5 m s^{-2} **D**   12.5 m s^{-2}