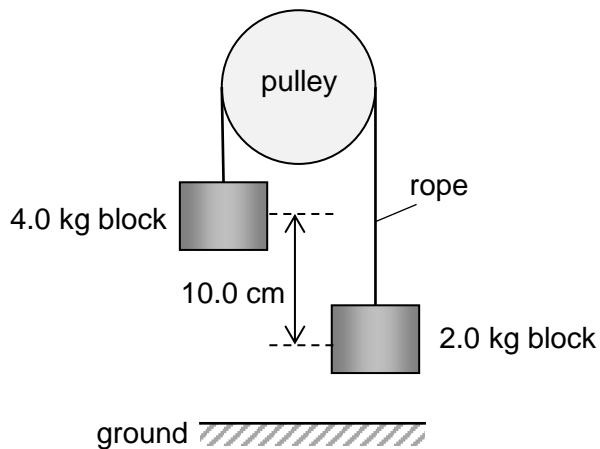12 The figure below shows a light inextensible rope that passes over a light smooth pulley with two blocks of masses 4.0 kg and 2.0 kg attached to its two ends. The two blocks are initially at rest with the 4.0 kg block 10.0 cm above the 2.0 kg block.

What is the speed of the blocks when they are at the same height above the ground?

A   0.57 m s^{-1} **B**   0.81 m s^{-1} **C**   0.99 m s^{-1} **D**   1.4 m s^{-1}