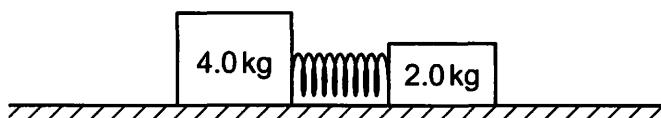
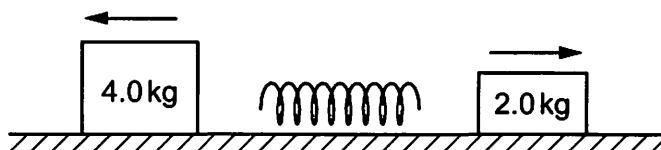


- 14 The first diagram shows two blocks of mass 4.0 kg and 2.0 kg resting on a frictionless surface. The blocks are held together to compress a spring placed between them. The elastic potential energy stored in the system is 6.0 J.



The two blocks are released at the same instant. They move apart with a total kinetic energy equal to the stored elastic potential energy.



At what speed does the 4.0 kg block move?

- A 1.0 ms^{-1} B 1.4 ms^{-1} C 1.5 ms^{-1} D 2.7 ms^{-1}