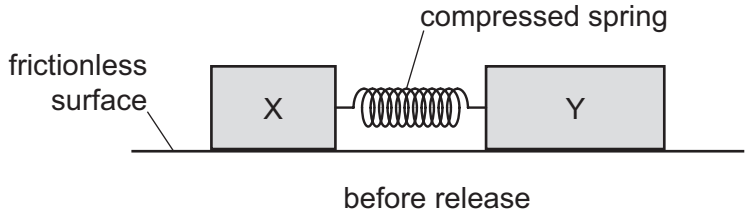
15 Two blocks, X and Y, are on a horizontal frictionless surface. The mass of block Y is greater than that of block X. Block Y has a spring attached to its end.

The blocks are pushed together so that the spring is compressed between them and the blocks are held stationary as shown.



When released, the blocks move in opposite directions.

Which statement is correct?

A After release, the kinetic energy of block X must equal the kinetic energy of block Y.

B After release, the sum of the kinetic energies of the blocks is equal to zero.

C The total energy of the spring and blocks immediately before release is zero.

D The total energy of the spring and blocks is equal to the energy needed to bring the blocks together.