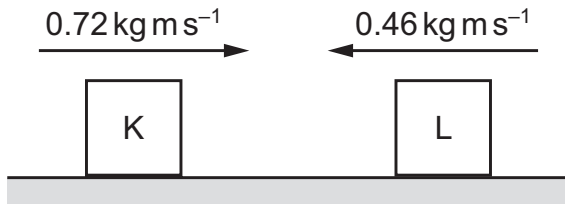


11 Two blocks K and L slide towards each other along a horizontal frictionless surface.

The diagram shows the momentum of the two blocks just before they collide.



During the collision, the blocks are in contact with each other for a time of 0.084 s .

After the collision, the blocks separate and block L moves back along its original path with a momentum of 0.12 kg m s^{-1} .

What is the magnitude of the average force exerted on block L by block K during the collision?

A 3.1 N

B 4.0 N

C 6.9 N

D 7.1 N