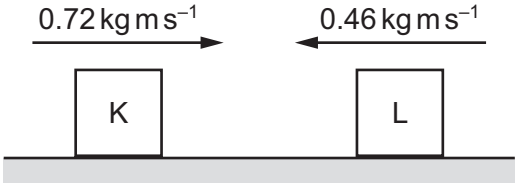
11 Two blocks K and L slide towards each other along a horizontal frictionless surface.

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