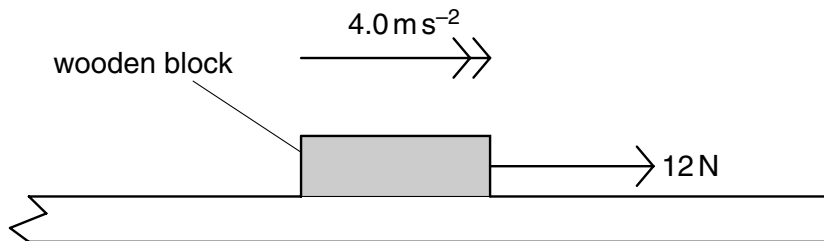10 A wooden block of mass 0.60 kg is on a rough horizontal surface. A force of 12 N is applied to the block and it accelerates at $4.0\,\mathrm{m\,s^{-2}}$.

What is the magnitude of the frictional force acting on the block?

A   2.4 N

B   9.6 N

C   14 N

D   16 N