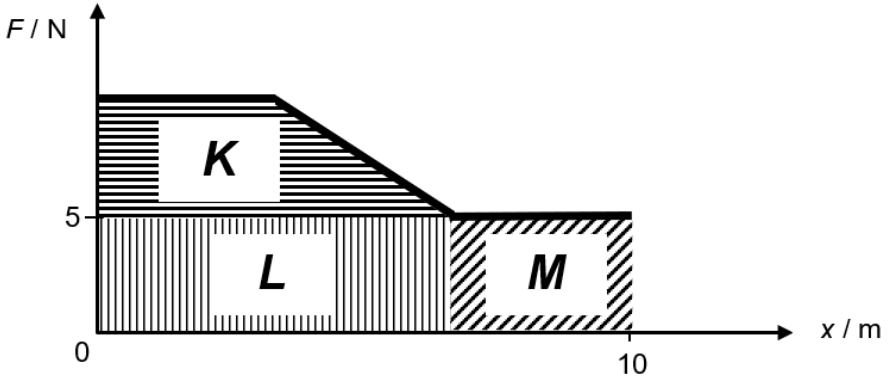
11 An object is pushed from rest in a straight line by a variable force F along a rough ground. The ground exerts a constant frictional force of 5 N throughout the motion of the object. The variation with displacement x of the force F is shown below.



The magnitude of the kinetic energy of the object when it has travelled 10 m is the area

A K B $K + L$ C $K + L + M$ D $L + M$