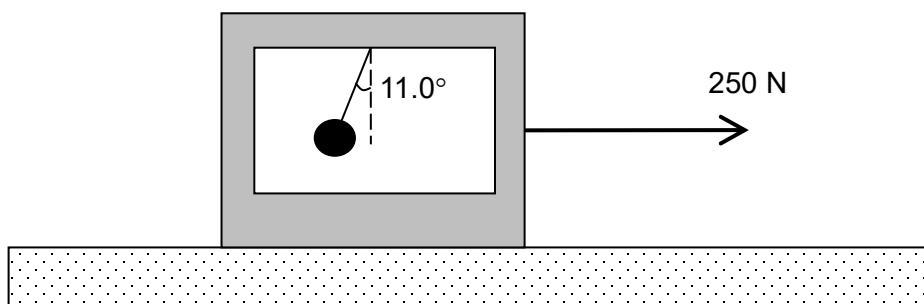


**6**

A block with a pendulum bob hanging inside lies on a rough horizontal surface. The total mass of the block and the pendulum bob is 100 kg. A force of 250 N is applied to the block and the pendulum bob makes an angle of  $11.0^\circ$  to the vertical axis.

Block with pendulum bob inside



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

**A**

28 N

**B**

42 N

**C**

59 N

**D**

94 N