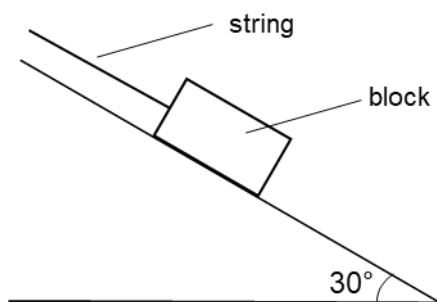


- 5 A 5.0 kg block is placed on a rough slope inclined at an angle of 30° to the horizontal with a string attached to it as shown below.



The tension in the string is 2.0 N and the frictional force exerted by the slope is 3.0 N.

What is the magnitude of the acceleration of the block?

- A** 3.9 m s^{-2} **B** 5.1 m s^{-2} **C** 5.9 m s^{-2} **D** 7.5 m s^{-2}