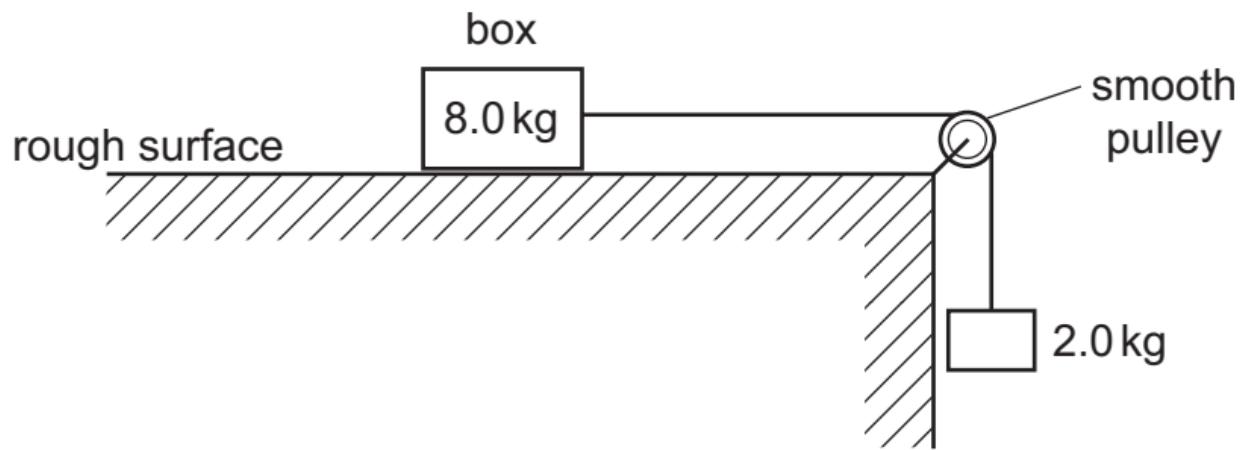


- 11 A box of mass 8.0 kg rests on a horizontal, rough surface. A string attached to the box passes over a smooth pulley and supports a 2.0 kg mass at its other end.



When the box is released, a friction force of 6.0 N acts on it.

What is the acceleration of the box?

A  $1.4 \text{ ms}^{-2}$

B  $1.7 \text{ ms}^{-2}$

C  $2.0 \text{ ms}^{-2}$

D  $2.5 \text{ ms}^{-2}$