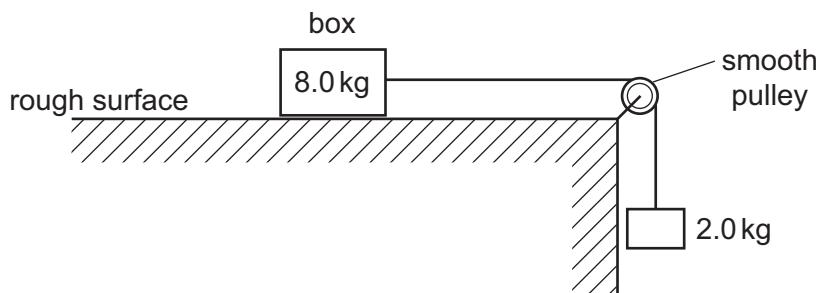


- 13 A box of mass 8.0 kg rests on a horizontal, rough surface. A string attached to the box passes over a smooth pulley and supports a 2.0 kg mass at its other end.



When the box is released, a frictional 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**  $2.5 \text{ ms}^{-2}$

**Space for working**