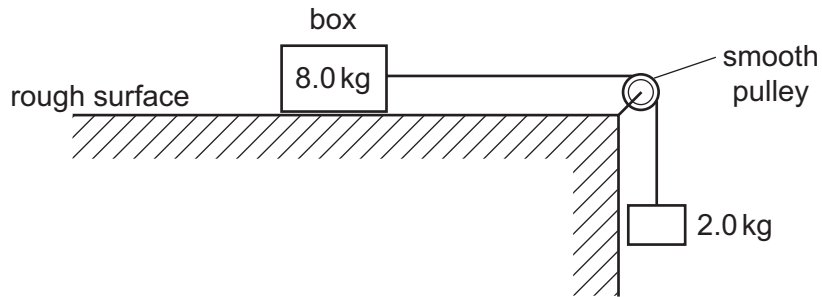


- 13** A box of mass  $8.0\text{ kg}$  rests on a horizontal rough surface. A string attached to the box passes over a smooth pulley and supports a  $2.0\text{ kg}$  mass at its other end.



When the box is released, a frictional force of  $6.0\text{ N}$  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**  $2.6\text{ ms}^{-2}$

- 14** What is the definition of the force on a body?