3. A block of mass 6·0 kg and a block of mass 8·0 kg are connected by a string. A force of 32 N is applied to the blocks as shown.

A frictional force of 4·0 N acts on **each** block.

The acceleration of the 6·0 kg block is

A $1·7\,\text{m s}^{-2}$

B $2·0\,\text{m s}^{-2}$

C $2·3\,\text{m s}^{-2}$

D $2·9\,\text{m s}^{-2}$

E $5·3\,\text{m s}^{-2}$.