

- 6** A 100 kg block is pulled at a constant speed of  $5.0 \text{ m s}^{-1}$  across a rough horizontal floor by an applied force of 120 N directed  $37^\circ$  above the horizontal.

What is the rate at which the applied force does work on the block?

**A** 0

**B** 360 W

**C** 480 W

**D** 600 W