

- 8** A toy car of mass 70 kg is moving at a constant velocity of  $20 \text{ m s}^{-1}$  up a track that is inclined at an angle of  $30^\circ$  to the horizontal.

A constant resistive force of 120 N acts on the toy car throughout its motion.

What is the power supplied by the motor of the toy car?

**A** 2400 W

**B** 4500 W

**C** 9300 W

**D** 16000 W