

- 14** The force resisting the motion of a car is proportional to the square of the car's speed. The magnitude of the force at a speed of 20.0 m s^{-1} is 800 N .

What useful output power is required from the car's engine to maintain a steady speed of 40.0 m s^{-1} ?

- A** 32 kW **B** 64 kW **C** 128 kW **D** 512 kW