

- 8 A car travels along a road at a constant speed of 20 m s^{-1} . Its power output is 23 kW . The total frictional force on the car is proportional to the square of its speed.

What power will be required to travel at a constant speed of 40 m s^{-1} ?

- A** 46 kW **B** 92 kW **C** 184 kW **D** 368 kW