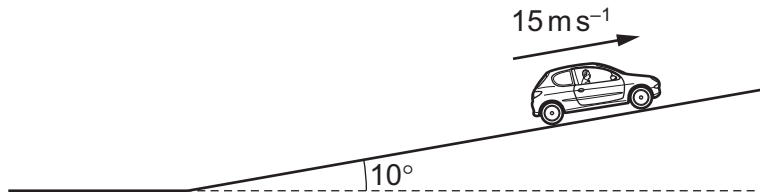


- 14** A car of mass 1100 kg is travelling at a constant speed of 15 m s^{-1} up a slope inclined at 10° to the horizontal. The combined frictional forces acting on the car are directed down the slope and are equal to $\frac{W}{5}$, where W is the weight of the car.



What is the useful output power of the car's engine?

- A** 28 kW **B** 32 kW **C** 60 kW **D** 190 kW

- 15** A small fan is rated 100 W and has an efficiency of 95% . It is used to lift a 4.0 W weight at a