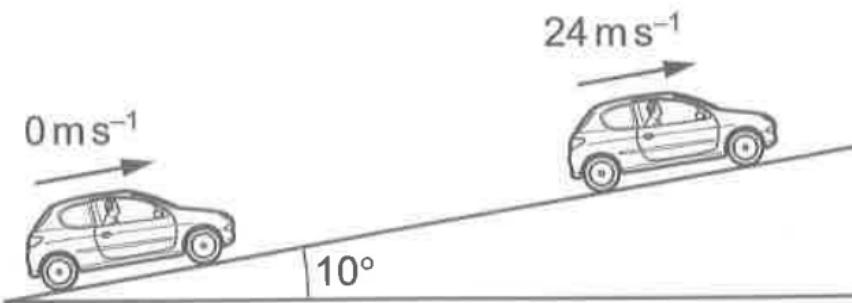


- 16 A car of mass 1000 kg accelerates uniformly up a road inclined at  $10^\circ$  to the horizontal. Starting from rest, the car reaches a speed of  $24 \text{ ms}^{-1}$  in 10 seconds.



Ignoring resistive forces, what is the power output of the car's engine when the car reaches the speed of  $24 \text{ ms}^{-1}$ ?

- A 28 kW      B 49 kW      C 57 kW      D 98 kW

