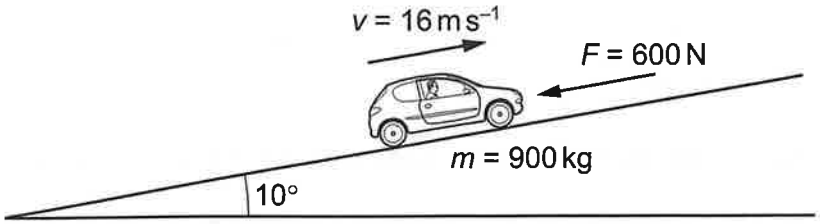
7 A car is moving at a constant speed v of $16\,m\,s^{-1}$ up a hill at an angle of 10° to the horizontal.



The mass m of the car is 900 kg and the total resistive force F opposing the motion at this speed is 600 N.

What is the power developed by the engine?

A 9.6 kW **B** 12 kW **C** 34 kW **D** 149 kW