

- 6** A car of mass 1.2×10^3 kg travels along a horizontal road at a speed of 10 m s^{-1} . It then accelerates at 0.20 m s^{-2} . At the instant it begins to accelerate, the total resistive force acting on the car is 160 N.

What total output power is developed by the car as it begins the acceleration?

A 0.80 kW

B 1.6 kW

C 2.4 kW

D 4.0 kW