9 When a car is travelling along a straight road at a constant speed of 72 km h^{-1}, the power delivered by its engine is 12 kW. The efficiency of the engine is 30% and each kilogram of petrol produces 40 MJ of energy.

What is the total resistive force on the car and the mass of petrol required for a one-hour drive?

	total resistive force	mass of petrol
A	170 N	0.32 kg
B	600 N	0.32 kg
C	170 N	3.6 kg
D	600 N	3.6 kg