

- 9** A vehicle of mass 1000 kg travels at a constant velocity of 6.5 m s^{-1} up a 45° incline. The input power to the engine of the car is 80 kW. The efficiency of the engine is 60%.

What is the resistive force on the car?

- A** 450 N **B** 5400 N **C** 7400 N **D** 14 kN

- 10** A steel sphere is set in motion so that it is moving in a horizontal circle at constant speed with a