7 A driving force of 250 N is needed for a car of mass 900 kg to travel along a level road at a constant speed of 24 m s^{-1}.

What power is required to maintain the car at this speed when it is moving up a slope that rises 1.0 m for every 12 m of travel along the road?

A 6.8 kW **B** 12 kW **C** 18 kW **D** 24 kW

8 A ball of mass 0.10 kg is attached to a string and swung in a vertical circle of radius 0.50 m