AREA

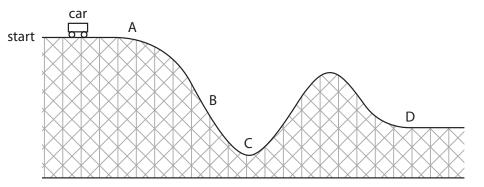
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3 The diagram shows part of a roller coaster ride.

The car is pulled towards point A and then released.



(a) Choose letters from the diagram to complete this sentence.

(2)

(b) The maximum gravitational potential energy of the car is 380 kJ.

The maximum height of the car is 45 m.

Calculate the mass of the car.

[gravitational potential energy = mass \times $g \times$ height]

(3)

mass – ko

(Total for Question 3 = 5 marks)