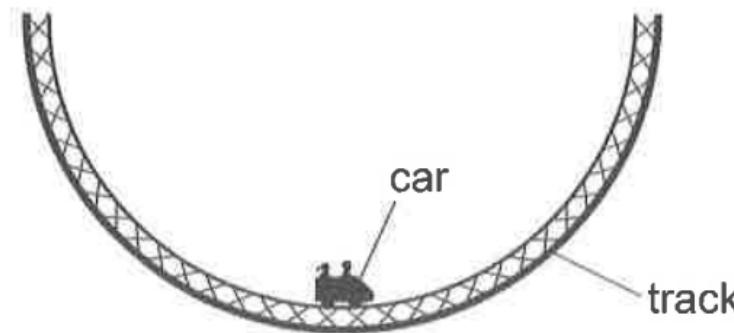


19 A fairground car travels around a circular loop of radius 12.0 m.

- At the bottom of the loop the speed of the car is  $10.0 \text{ ms}^{-1}$ .



The total mass of the car and the people in it is 650 kg.

What is the magnitude of the normal contact force of the track on the car at the bottom of the loop?

A 0.960 kN

B 5.42 kN

C 6.92 kN

D 11.8 kN

20 An object moves in a circular path of diameter 8.1 m, starting at uniform speed