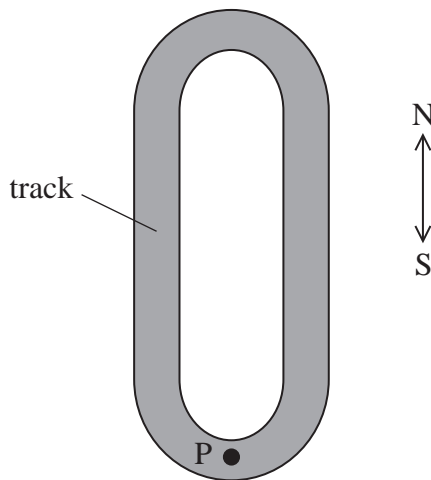


- 5 The plan view of a model racing car track is shown. Friction acts between a model racing car and the track. A car is moving round the track with a constant speed and reaches point P. Arrows indicating directions North and South are also shown.



The car then slides off the track at P.

Which of the following is the reason why the car slides off the track?

- ☐ A The centripetal force is acting in the N direction.
- ☐ B The centripetal force is acting in the S direction.
- ☐ C The frictional force is equal to the centripetal force.
- ☐ D The frictional force is not large enough.

(Total for Question 5 = 1 mark)