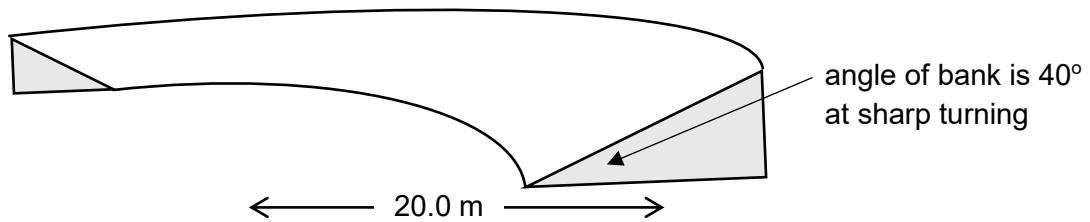


- 11 The section of a cycling track where sharper turns are made has a horizontal radius of 20.0 m, and is banked at 40° to the horizontal.



Given that the maximum speed of the cyclist of mass 80 kg is 60 km h^{-1} , what is the difference in frictional force that the bicycle tyres must provide compared to an unbanked track?

- A** 140 N **B** 450 N **C** 760 N **D** 1200 N