6 A trolley of mass 0.50 kg moves with a certain acceleration down a runway which is inclined to the horizontal at 15°. If the angle of inclination is increased to 20°, the acceleration of the trolley would be doubled. Find the frictional force, assumed to be the same in both cases, acting on the trolley.

A 0.12 N   **B** 0.41 N   **C** 0.86 N   **D** 4.9 N