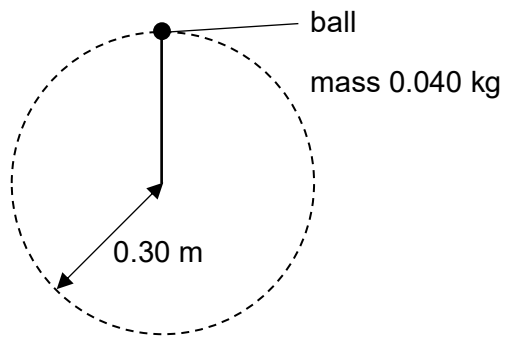


- 8** A small ball of mass 0.040 kg is attached to a light string and rotates in a vertical circle of radius 0.30 m . When the ball is vertically above the centre of the circle, the tension in the string is 1.2 N .



What is the centripetal acceleration of the ball when it is vertically below the centre of the circle?

- A** 40 m s^{-2} **B** 59 m s^{-2} **C** 69 m s^{-2} **D** 79 m s^{-2}