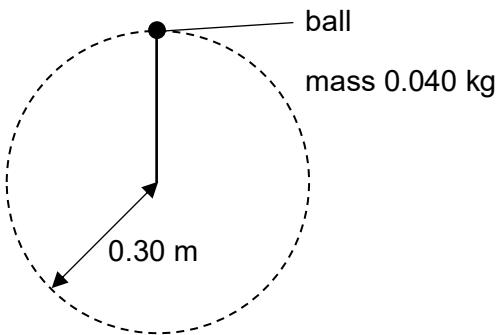


- 8** A small ball of mass 0.040 kg is attached to a light string and rotates in a vertical circle of radius 0.30 m. When the ball is vertically above the centre of the circle, the tension in the string is 1.2 N.



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

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