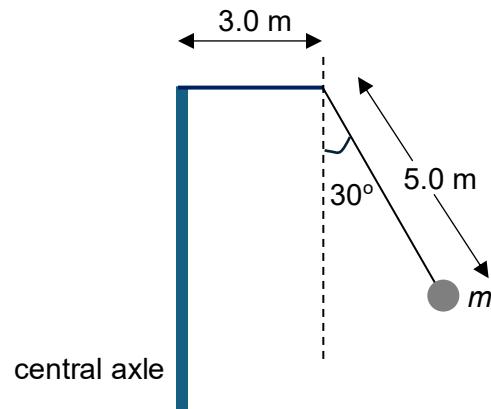


- 9** A mass m , attached to one end of an inextensible string of length 5.0 m, is made to move in a horizontal circle as the central axle is rotated. In a particular circular motion, the string makes an angle of 30° with the vertical as shown in the figure below.



What is the period of the mass's motion about the central axle?

- A** 1.0 s **B** 3.5 s **C** 4.8 s **D** 6.2 s