

- 8** A pendulum bob of mass 1.27 kg is supported by a string so that the radius of its path is 0.600 m. It is moving with velocity 0.575 m s^{-1} horizontally at the centre of its motion when the string is vertical.

What is the tension in the string at this instant?

- A** 11.8 N
- B** 12.5 N
- C** 13.2 N
- D** 13.7 N