

**19** A body of mass  $0.50\text{ kg}$  moves in a horizontal circle of radius  $0.20\text{ m}$  and completes  $3.0$  revolutions every second.

What is the centripetal force acting on the body?

**A**  $1.88\text{ N}$

**B**  $7.1\text{ N}$

**C**  $36\text{ N}$

**D**  $890\text{ N}$

**20** A satellite  $S$  orbits a planet  $P$  in a circular path