

**18** A small stone moves with a constant speed of  $1.4 \text{ m s}^{-1}$  in a horizontal circle of radius  $0.40 \text{ m}$ .

What is the magnitude of the acceleration of the stone?

**A**  $0.2 \text{ m s}^{-2}$

**B**  $3.5 \text{ m s}^{-2}$

**C**  $4.9 \text{ m s}^{-2}$

**D** zero

