

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

What is the magnitude of the acceleration of the stone?

A  $0.2\text{ ms}^{-2}$

B  $3.5\text{ ms}^{-2}$

C  $4.9\text{ ms}^{-2}$

D zero

