

- 17 A pendulum bob has a speed of  $0.264 \text{ m s}^{-1}$  at the mid-point of its travel. It is oscillating along the arc of a circle of radius  $0.962 \text{ m}$ .

What is the **total** angle through which it is oscillating?

- A**  $4.9^\circ$                       **B**  $7.0^\circ$                       **C**  $9.8^\circ$                       **D**  $14^\circ$

- 18 The thermodynamic temperature of an ideal gas is raised from  $T$  to  $2T$