

- 18** A beam of plane-polarised light of intensity  $I$  falls normally on a thin sheet of polaroid.

If the transmitted light beam has an intensity of  $\frac{I}{4}$ , what is the angle between the plane of polarisation of the incident beam and the polarising axis of the polaroid?

**A**  $14^\circ$

**B**  $30^\circ$

**C**  $60^\circ$

**D**  $76^\circ$