

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

If the transmitted beam has an intensity of  $\frac{3}{4}I$ , what is the angle between the plane of polarisation of the incident beam and the polarising axis of the polaroid?

**A**  $30^\circ$

**B**  $41^\circ$

**C**  $45^\circ$

**D**  $60^\circ$