

**26** A polarised beam of light with intensity  $I$  is incident normally on a polarising filter.

The transmitted light has intensity  $I$ .

The filter is rotated about the normal axis through an angle  $\theta$ .

The transmitted light has intensity  $0.75I$ .

What is the angle  $\theta$ ?

**A**  $30^\circ$

**B**  $42^\circ$

**C**  $49^\circ$

**D**  $60^\circ$