

Rotation – quarter, half and three-quarter turns

MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION REVIEW

HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
Triangle slid left → translation · Letter flipped → reflection

★ STRETCH PROBLEMS

- 1 On the grid-paper plan of the classroom, Oisín draws an arrow pointing east. He turns the arrow through a full turn anticlockwise. Which way is the arrow facing now?
- 2 Tadhg builds a den in the school orchard. He stands facing north to start, then makes a three-quarter turn clockwise to check the trees behind him. Which way is he facing now?
- 3 Cian stands on the wall-ball court in the yard and starts off facing south. He makes a quarter turn anticlockwise to face his friend. Which way is Cian facing now?
- 4 On the giant chess board painted on the yard, Oisín stands on a square facing south. He makes a half turn anticlockwise. Which way is he facing now?
- 5 In the school garden, Oisín points the wheelbarrow east towards the raised beds. He turns it a quarter turn anticlockwise to reach the shed. Which way is the wheelbarrow facing now?

