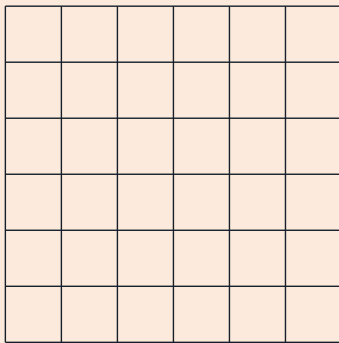


ROTATE THE L-SHAPE 90° CLOCKWISE ABOUT C

- 1 Mark centre point C on the grid.
- 2 Count the squares from C to each vertex of the L-shape.
- 3 Turn each vertex 90° clockwise around C to its new position.
- 4 Join the new vertices to draw the rotated L-shape.

WARM-UP

Complete the grid symmetrically by marking and rotating the given points.



1. Mark centre C and rotate the L-shape 90° clockwise about C
2. Rotate the flag 90° clockwise about the pin
3. Rotate the county outline 180° about the marked point

PRACTICE

- 1 In Dublin a flag is pinned at the castle and turned 90° clockwise about that point.
Rotate the flag 90° clockwise about the pin at Dublin Castle.
- 2 A map of Cork county is rotated 180° about a point marked on the map.
Rotate the county outline 180° about the marked point in Cork.
- 3 A corner of the L-shape sits at (2, 1). The whole shape is turned 90° anticlockwise about the origin. Where does that corner land?
- 4 A shape in Limerick must be rotated 180° about the marked point to land on the target outline.
Match the shape to the dashed target by a 180° turn about the marked point in Limerick.

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. A 180° rotation looks the same clockwise or anticlockwise. ☐
- b. A 90° clockwise rotation and a 90° anticlockwise rotation send a shape to the same place. ☐
- c. The shape changes size after a rotation about a point. ☐
- d. A vertex of the shape can be used as the centre of rotation. ☐

