Planner

Rotation

- Describing a rotation
- Rotating a shape using tracing paper
- Rotating a shape on a coordinate grid

Keywords

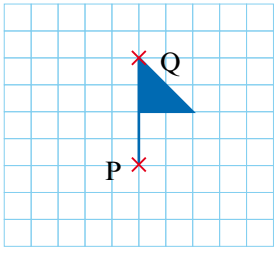
You should know

explanation 1a | explanation 1b | online

1 Copy this diagram onto squared paper.

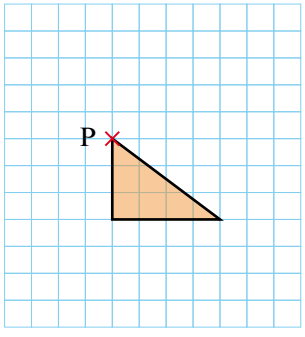
Show the new position of the shape after a clockwise rotation of 90° with centre

a P **b** Q

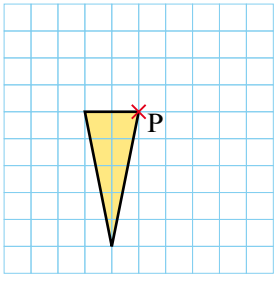


2 Copy these diagrams onto squared paper. Show the new position of each shape after an anticlockwise rotation of 90° with centre P.

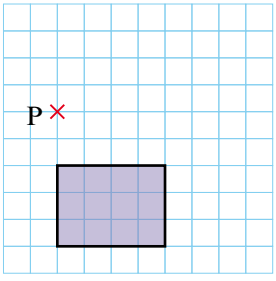
a



b

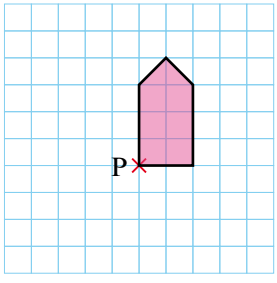


c

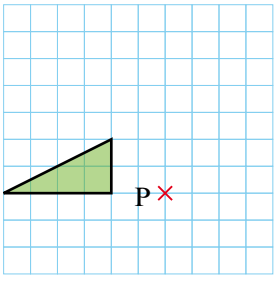


3 Copy these diagrams onto squared paper. Show the new position of each shape after a clockwise rotation of 90° with centre P.

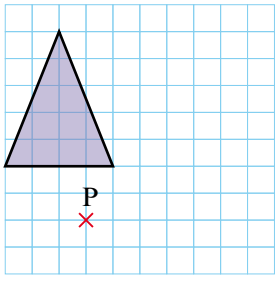
a



b



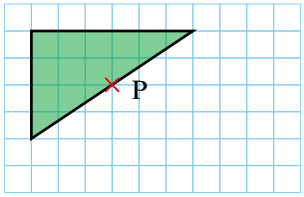
c



4 Copy the diagram onto squared paper.

Rotate the triangle through 180° with centre P.

Explain why it isn't necessary to give the direction of rotation.



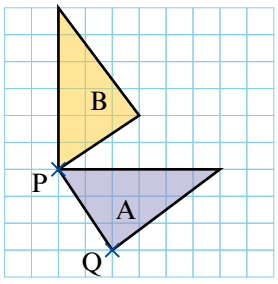
5 Each diagram shows a rotation that maps shape A to shape B.

In each diagram the centre of rotation is *either* P *or* Q.

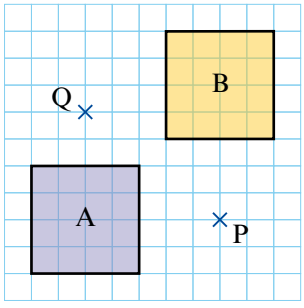
Decide which point is the centre of rotation and then describe the rotation.

(Remember to describe the angle, direction and centre.)

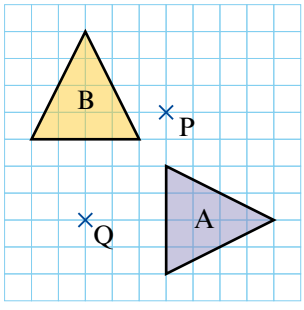
a



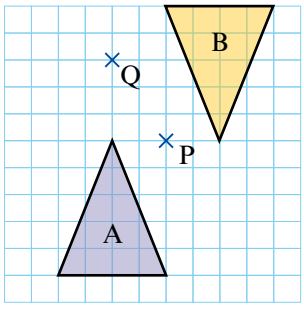
b



c



d



6 Copy this diagram onto squared paper.

a Rotate triangle A through 90° clockwise with centre (0, 0). Label the image B.

b Rotate triangle A through 90° anticlockwise with centre (0, 0). Label the image C.

c Rotate triangle A through 180° with centre (0, 0). Label the image D.