method maths

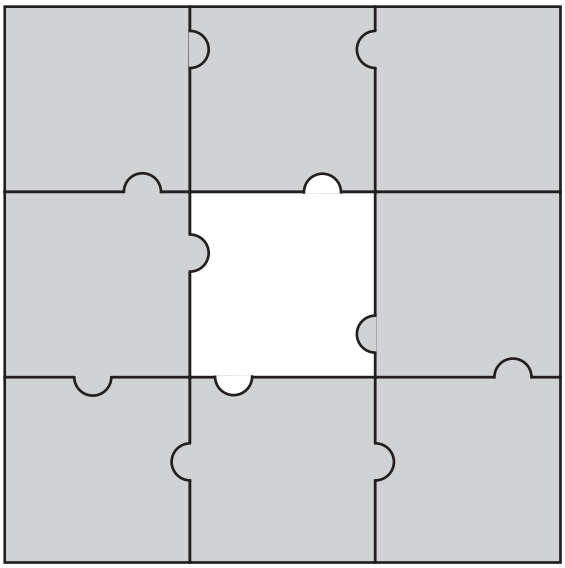
interactive practice papers

BOOSTER WORKBOOK

Geometry G4

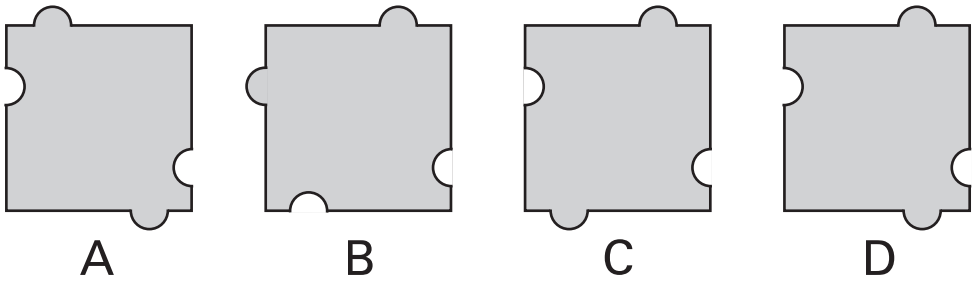
Angles - turn, measuring and properties

1 Here is a jigsaw with one piece **missing**.

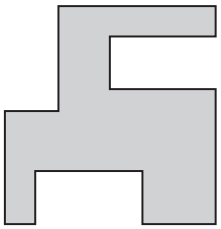


Which **one** of the pieces below fits the hole in the middle?

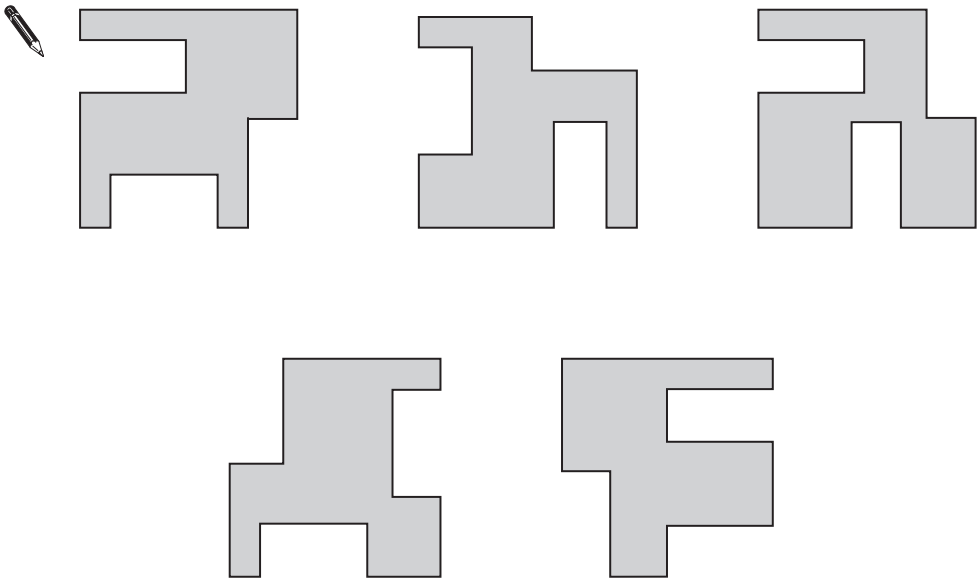
1 mark



2 Here is a shape.

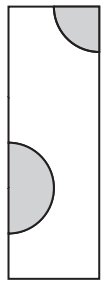


Put a tick (✓) on the shape below which is the same as the one above.



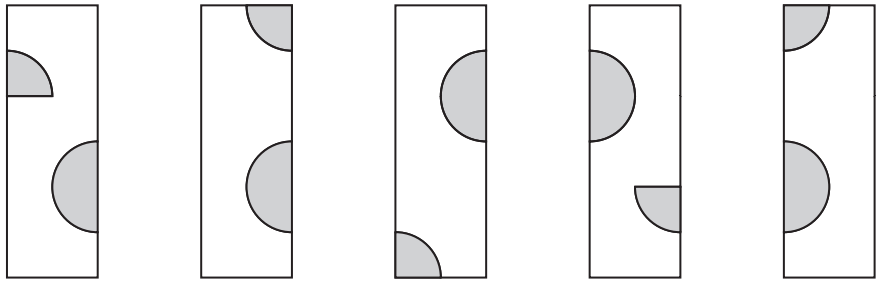
1 mark

3 Here is a tile.



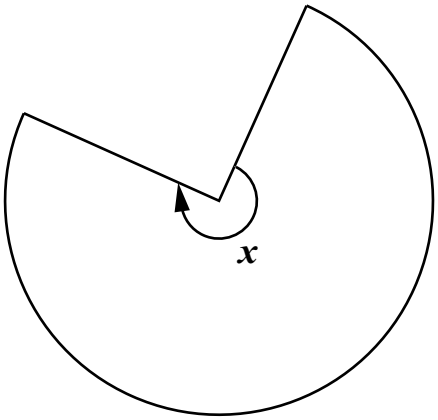
The tile is turned.

One of the diagrams below shows the tile after it has been turned.
Tick (✓) the correct diagram.



1 mark

4 This shape is **three-quarters of a circle**.

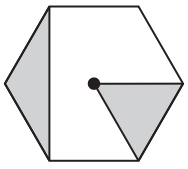


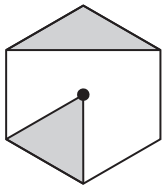
How many degrees is **angle x**?

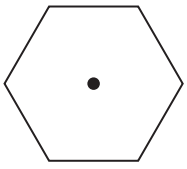
1 mark

5 This pattern is made by turning a shape clockwise through 90° each time.

Draw the two missing triangles on the last shape.

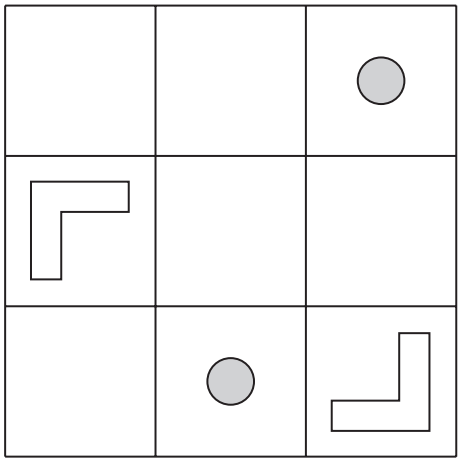






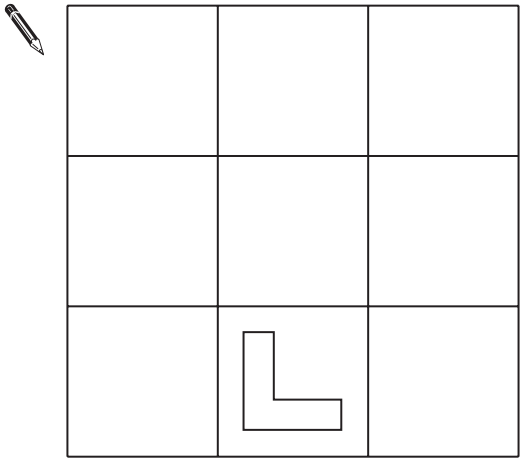
1 mark

6 There are four shapes on this diagram.



The diagram is turned to the new position below.

Draw the three missing shapes.

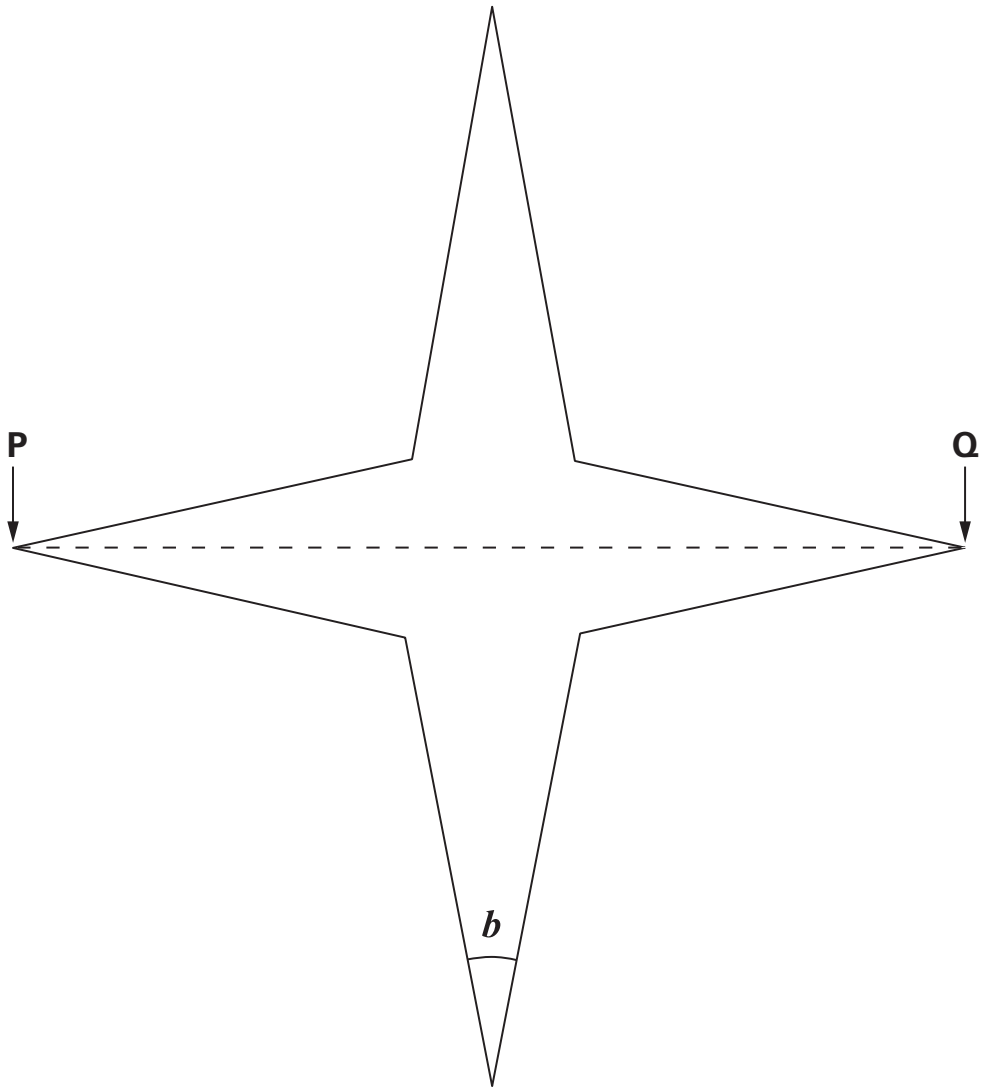


16i

16ii

2 marks

7 Look at this star.



Use a ruler to measure **accurately** the **width** of the star, from **P** to **Q**.

Give your answer in **millimetres**.

mm

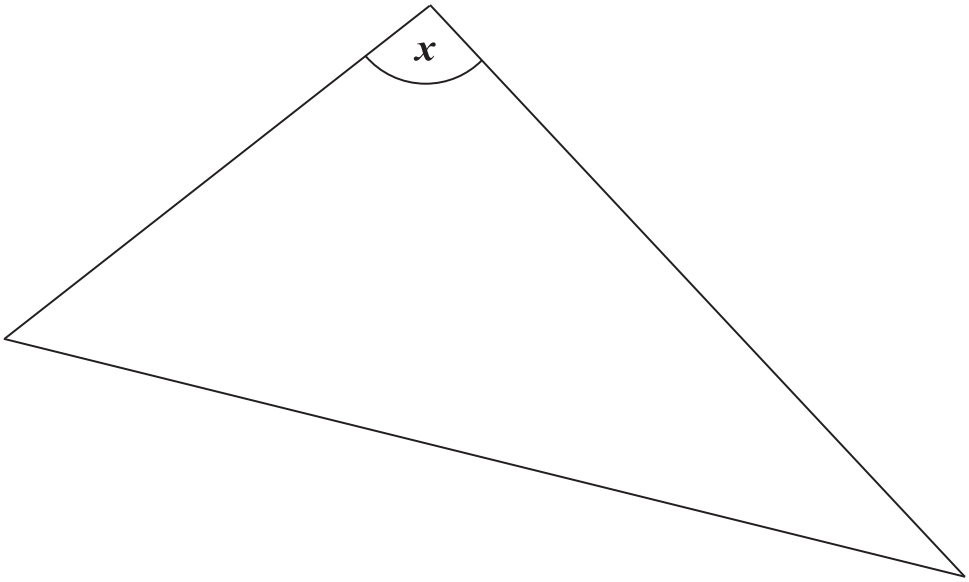
1 mark

Use a protractor (angle measurer) to measure **angle** b.

°

1 mark

8



Measure angle x accurately.

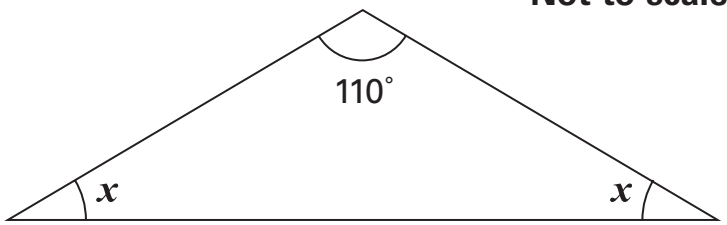
Use a protractor (angle measurer).

°

1 mark

9 Here is an isosceles triangle.

Not to scale



Do **not** use a protractor (angle measurer).

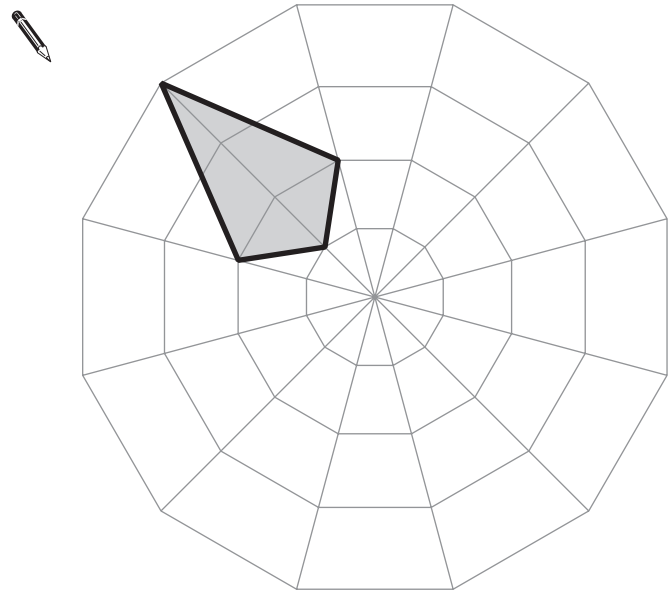
x = °

1 mark

10 Here is a shaded shape on a grid.

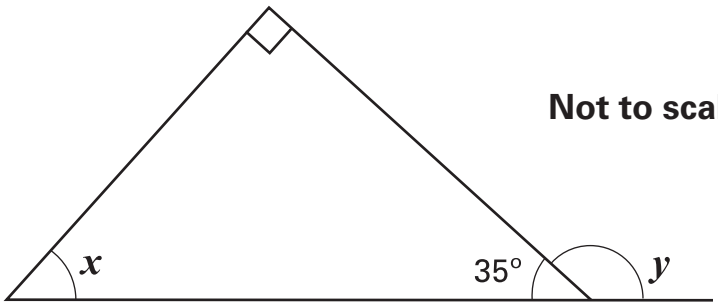
Jamie rotates the shape 90° **clockwise** about the centre of the grid.

Draw the shaded shape in its new position.



2 marks

11 Look at this diagram.



Calculate the size of angle x and angle y.

Do **not** use a protractor (angle measurer).

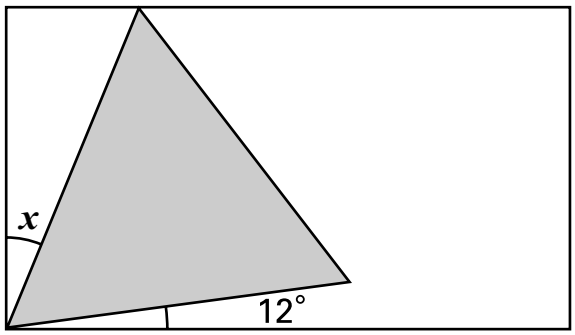
$x =$ ☐ °

1 mark

$y =$ ☐ °

1 mark

12 Here is an **equilateral triangle** inside a **rectangle**.



Not to scale

Calculate the value of angle x.

Do **not** use a protractor (angle measurer).

Show your **method**. You may get a mark.

°

2 marks