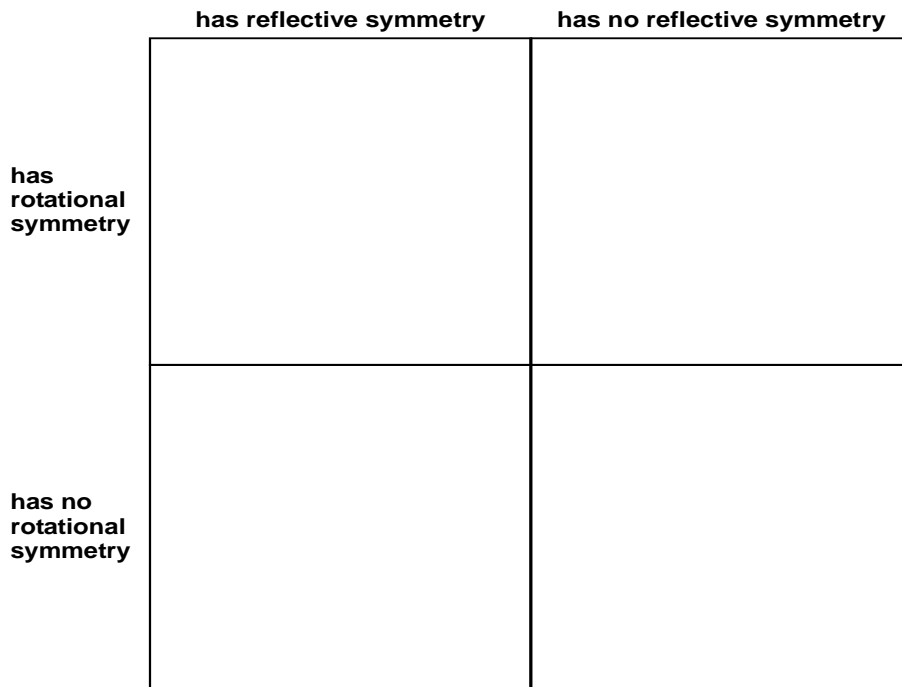


## Symmetry KS2 SATS Standard Worksheet

1.

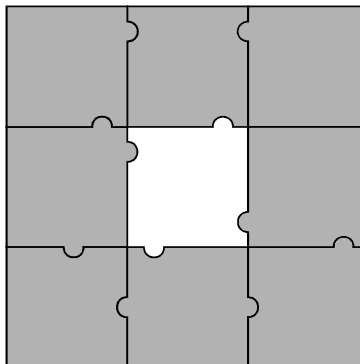
A      Z      F      H

Write each of these letters in the correct region on this diagram

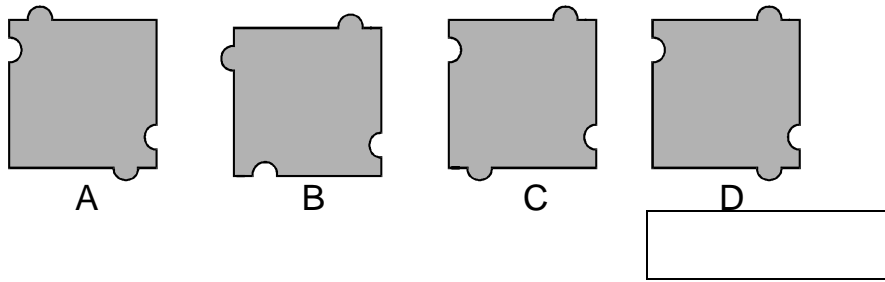


2 marks

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



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

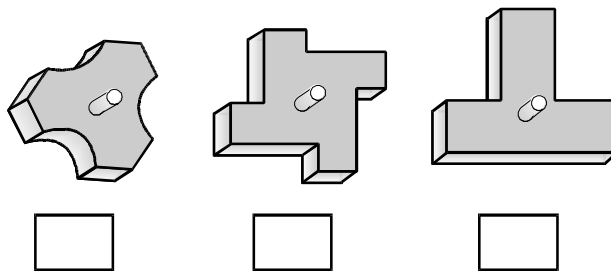


1 mark

3. Kim has a shape sorter toy.

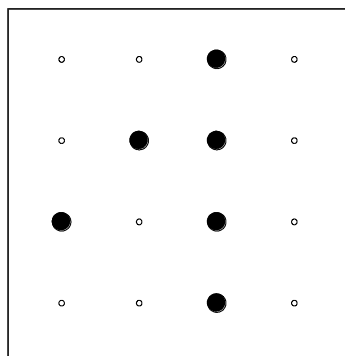


How many different ways does each piece fit into its hole?



2 marks

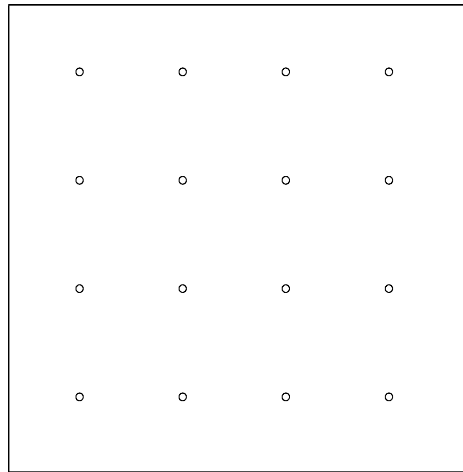
4. Karl puts **6 pegs** in a pegboard.



He turns the board through **1 right angle**.

Draw below how the board looks now.

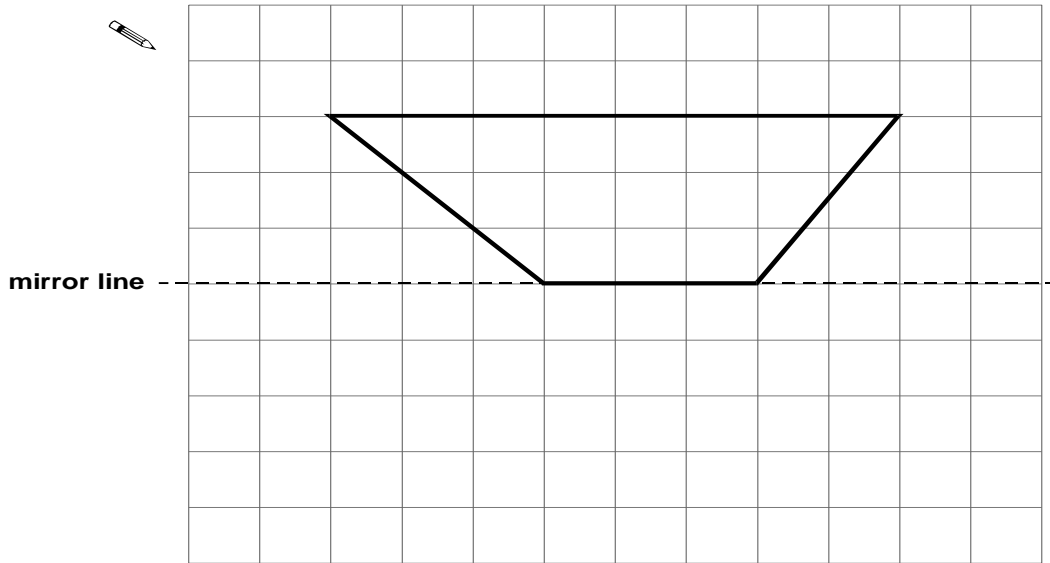
You may use tracing paper.



1 mark

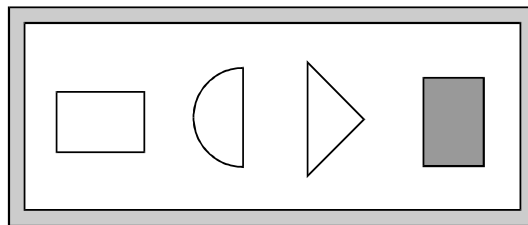
5. Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.

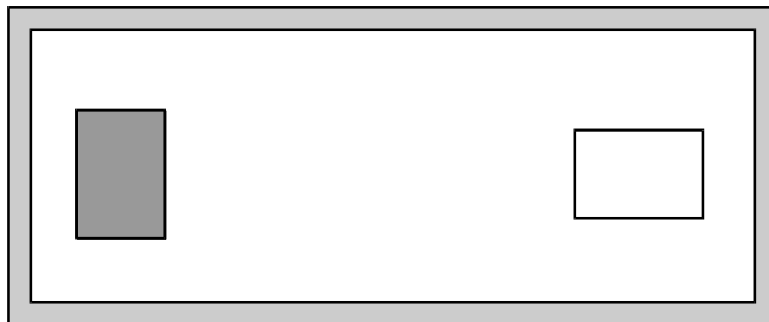


1 mark

6. Here is a pattern on a window.



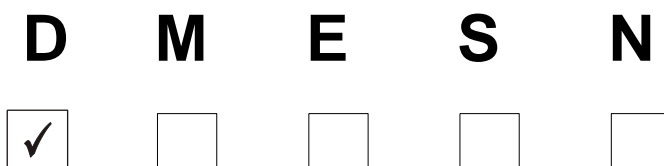
Draw how the pattern would look from the **other side** of the window.



2 marks

7. The letter **D** has a line of symmetry.

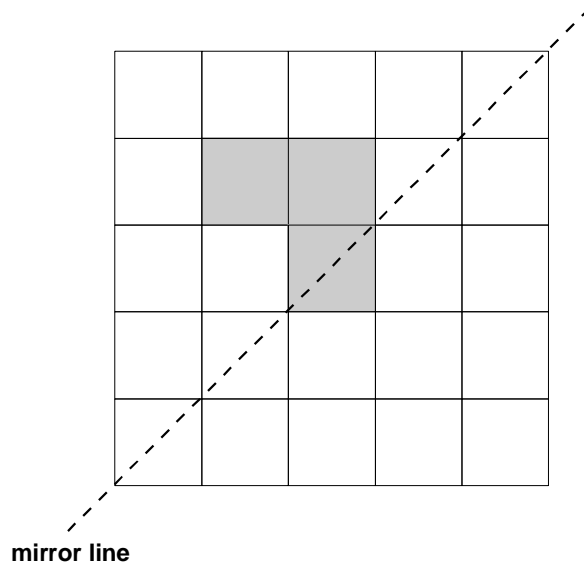
Tick (✓) **all** the other letters that have a line of symmetry.



1 mark

8. Shade in **two more squares** to make this design symmetrical about the mirror line.

You may use a mirror or tracing paper.



1 mark

9. Here is an arrow.



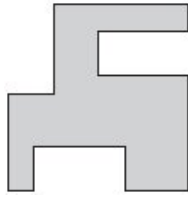
The arrow is **rotated 90° clockwise**.

In which direction does the arrow now point?  
Put a tick (✓) by the correct answer.

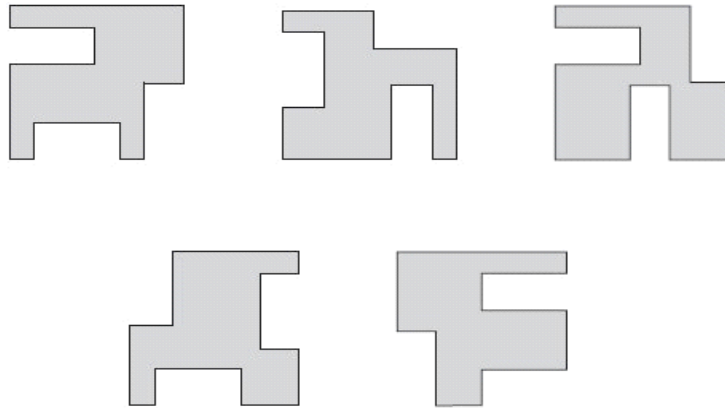


1 mark

10. Here is a shape.



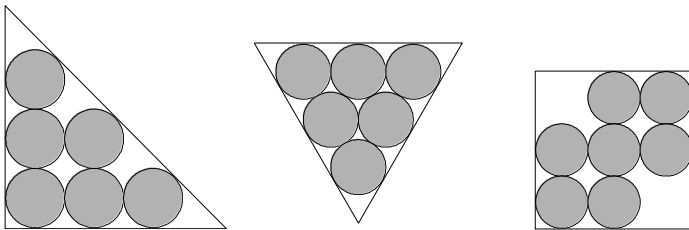
Put a tick (✓) on the shape below which is the same as the one above.



1 mark

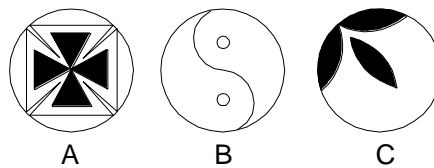
11. Use a ruler to draw **one** line of symmetry on **each** of these designs.

You may use a mirror or tracing paper.



2 marks

12. Here are three badges.



You may use a mirror and tracing paper.

Put a tick (✓) in the box if the badge has **reflective** symmetry.

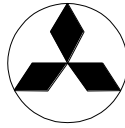
A

B

C

1 mark

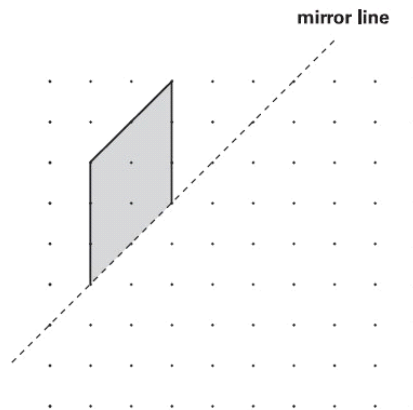
Draw **ONE** line of symmetry on this badge.



1 mark

**13.** Draw the **reflection** of the shape in the **mirror line**.

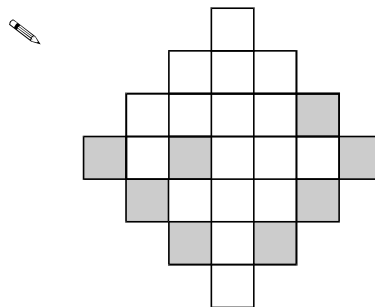
Use a ruler.



1 mark

**14.** Here is a grid with eight squares shaded in.

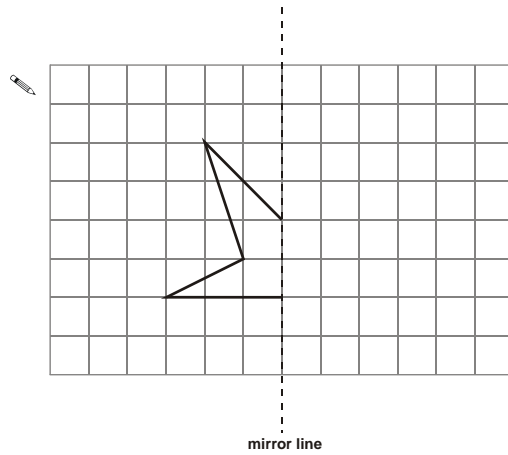
Shade in two more squares to make a symmetrical pattern.



1 mark

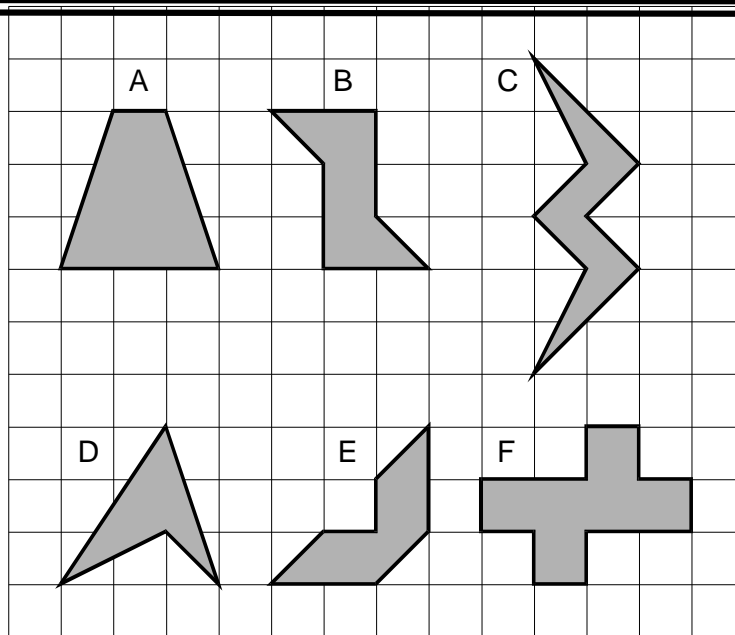
**15.** Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.



1 mark

16. Here are some shaded shapes on a grid.



Which **three** shapes have **reflective symmetry**?

You may use a mirror or tracing paper.

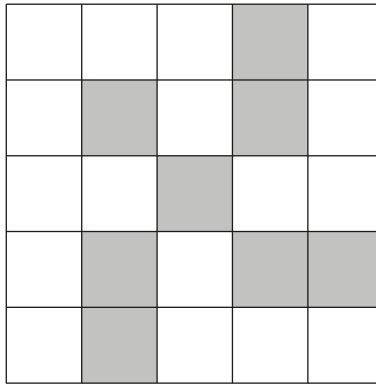
.....

2 marks

17. Shade in **one more** square so that this design has **rotational symmetry of order 4**.

You may use tracing paper

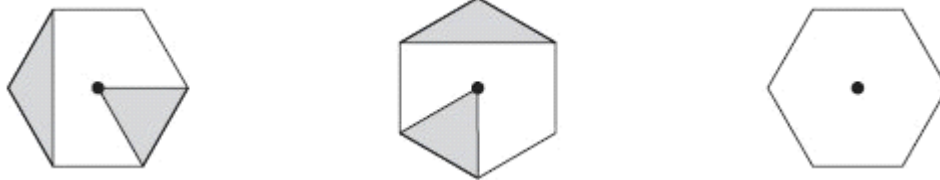




1 mark

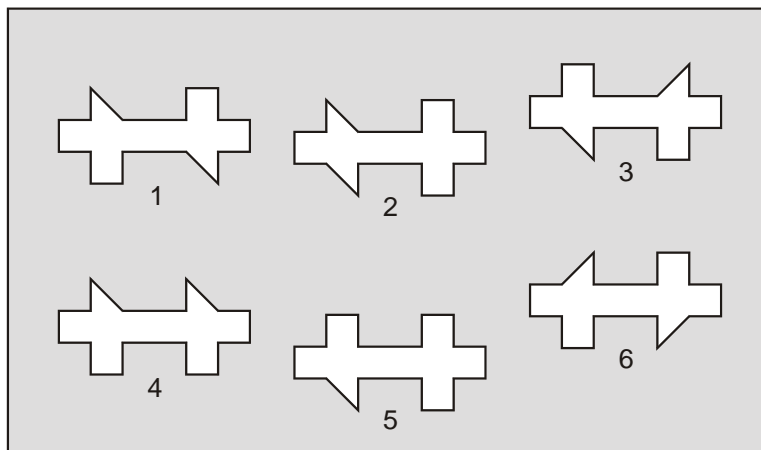
18. This pattern is made by turning a shape clockwise through  $90^\circ$  each time.

Draw the two missing triangles on the last shape.



1 mark

19. This board has six holes cut in it.



Here is a shape cut out of card.

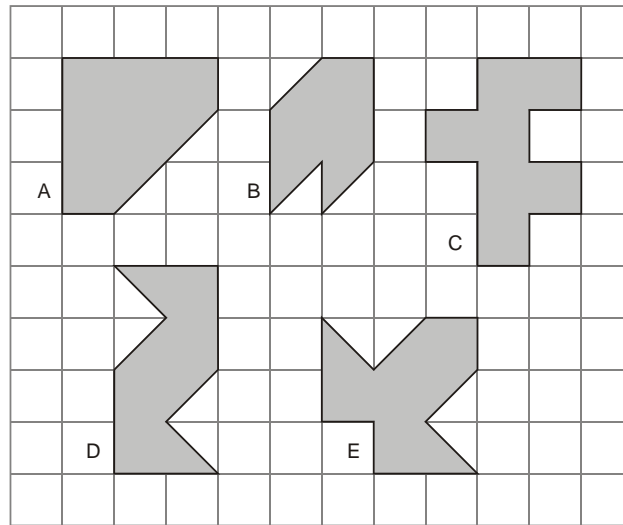


Which hole will the shape fit exactly into?


You may use tracing paper.



20. Here are five shapes on a square grid.

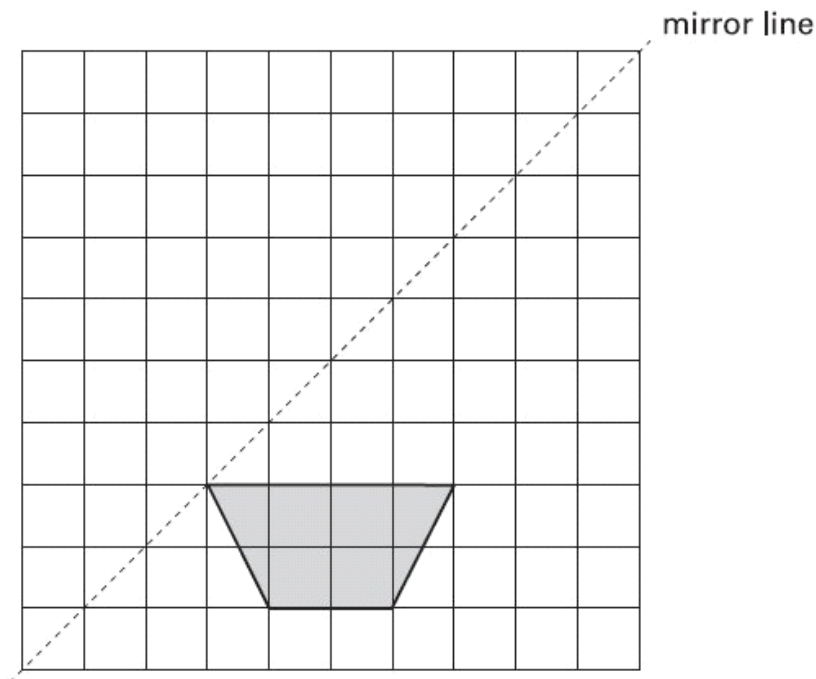


Write the letters of the **two** shapes which have a line of symmetry.

 ..... and .....

2 marks

21. Draw the reflection of this shape.



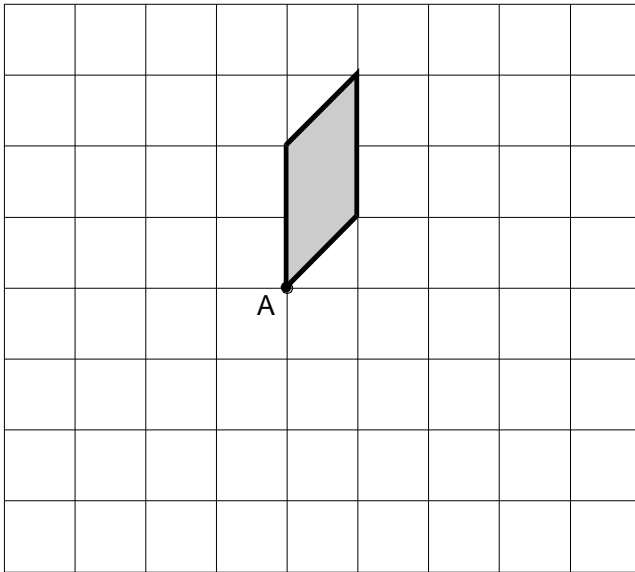
1 mark

22. Here is a shaded shape on a grid.

The shape is **rotated 90° clockwise** about point **A**.

Draw the shape in its **new position** on the grid.

You may use tracing paper.

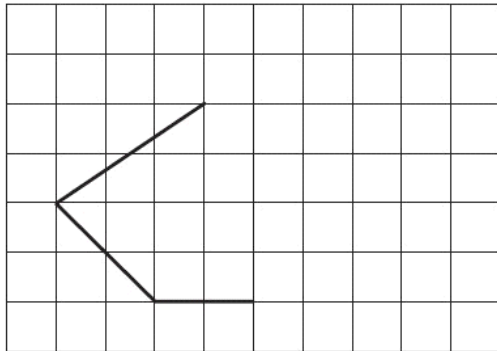


2 marks

23. Here is part of a shape on a square grid.

Draw **two more** lines to make a shape which has a line of symmetry.

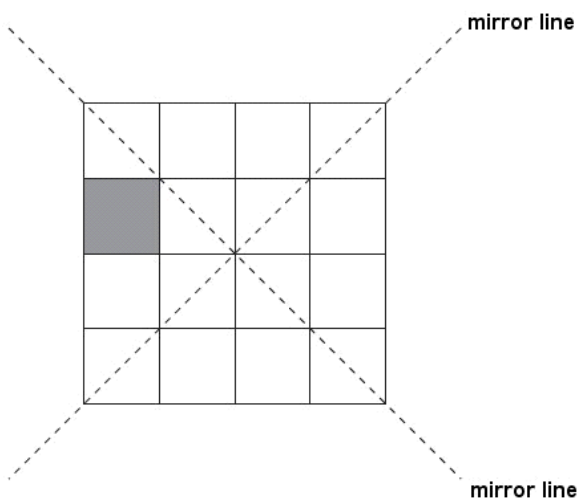
Use a ruler.



1 mark

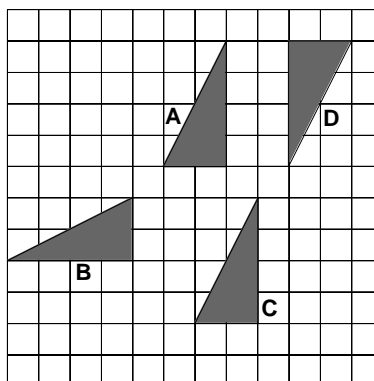
24. Here is a shaded square on a grid.

Shade in **3 more squares** so that the design is symmetrical in **both** mirror lines.



1 mark

25.



Write the correct **letter** in this sentence.

Shape ..... is a **reflection** of shape A.

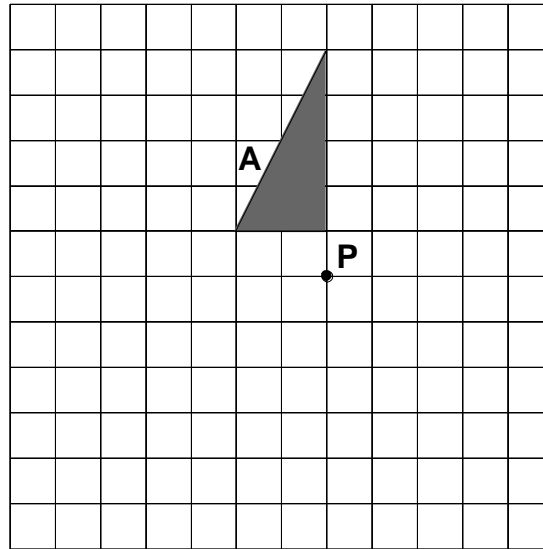
1 mark

Shape A is **rotated 180°** about the **point P**.

Draw **shape A** in its **new** position on the diagram below.

You may use tracing paper.

You may use an angle measurer.

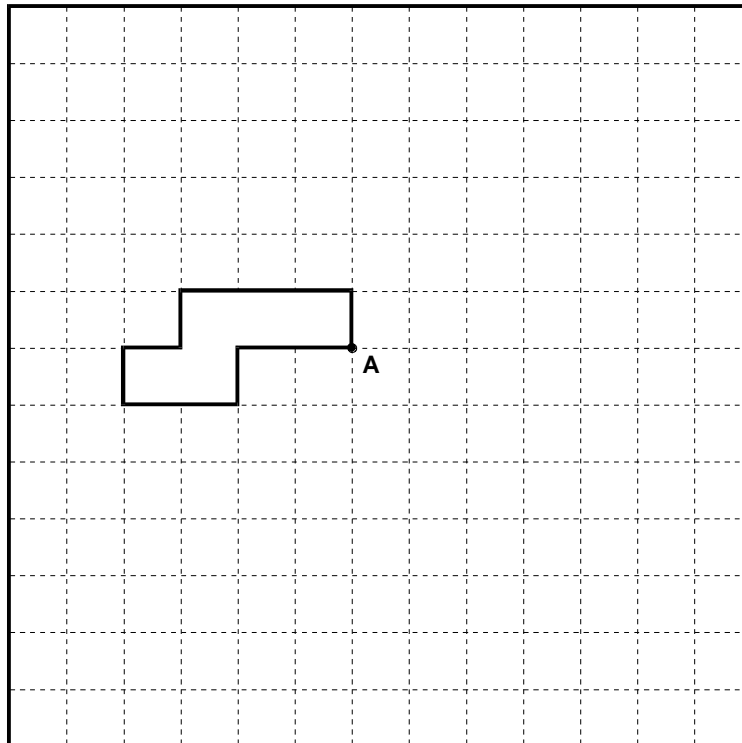


2 marks

26. Look at the shape on the grid.  
Turn it through **one right angle** around the point **A**.

Draw its new position.

You may use tracing paper.

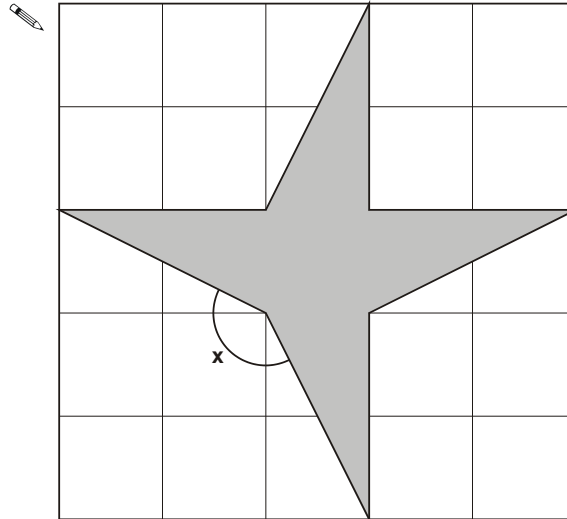


2 marks

27. Here is a shaded shape on a grid made of squares.

Draw the line of symmetry of the shaded shape.

You may use a mirror or tracing paper.



1 mark

What **fraction** of the area of the grid is shaded?

1 mark

Measure **angle x** in degrees.

Use an angle measurer (protractor).

1 mark