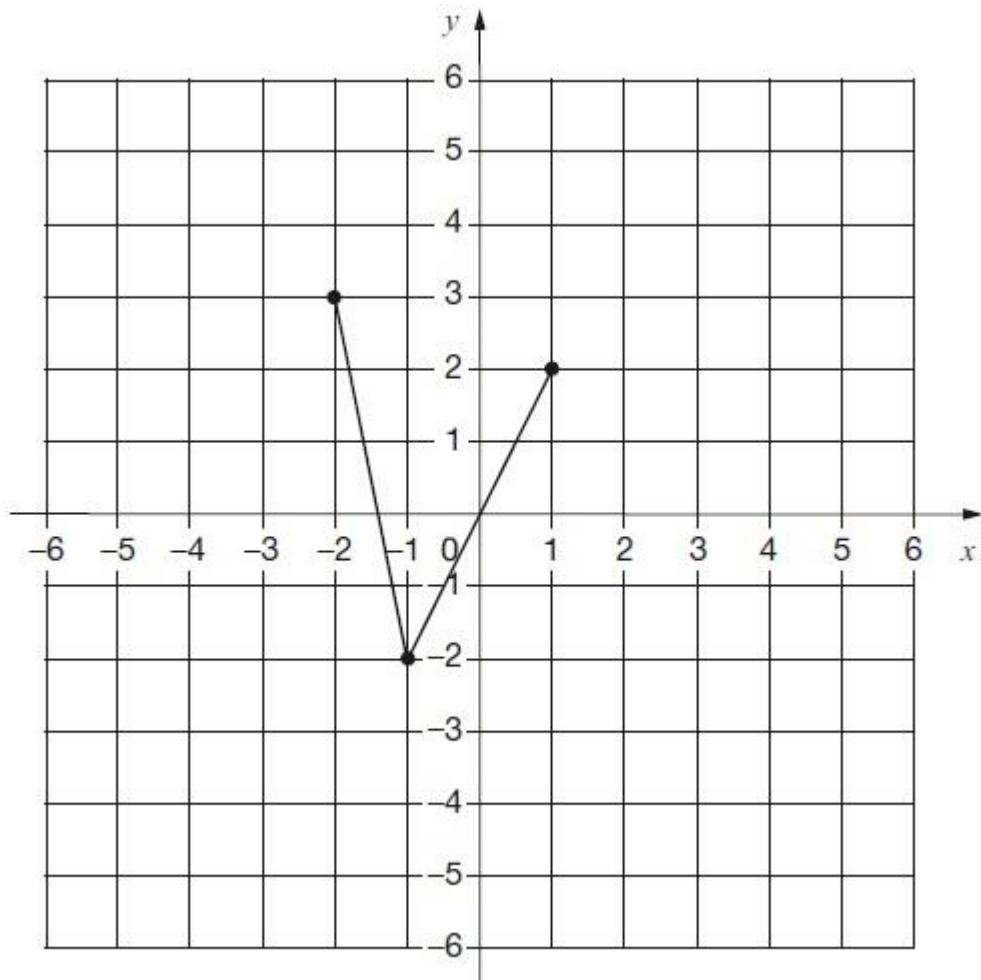


**Q1.**

On the grid there are three points joined by two lines.



Lara plots **another point** on the grid at  $(-1, 2)$ .

She joins the points to make a quadrilateral.

Complete Lara's quadrilateral on the grid.  
Use a ruler.

1 mark

Then Lara translates the quadrilateral **4 squares to the right**.

Draw the quadrilateral in its new position on the grid.

1 mark

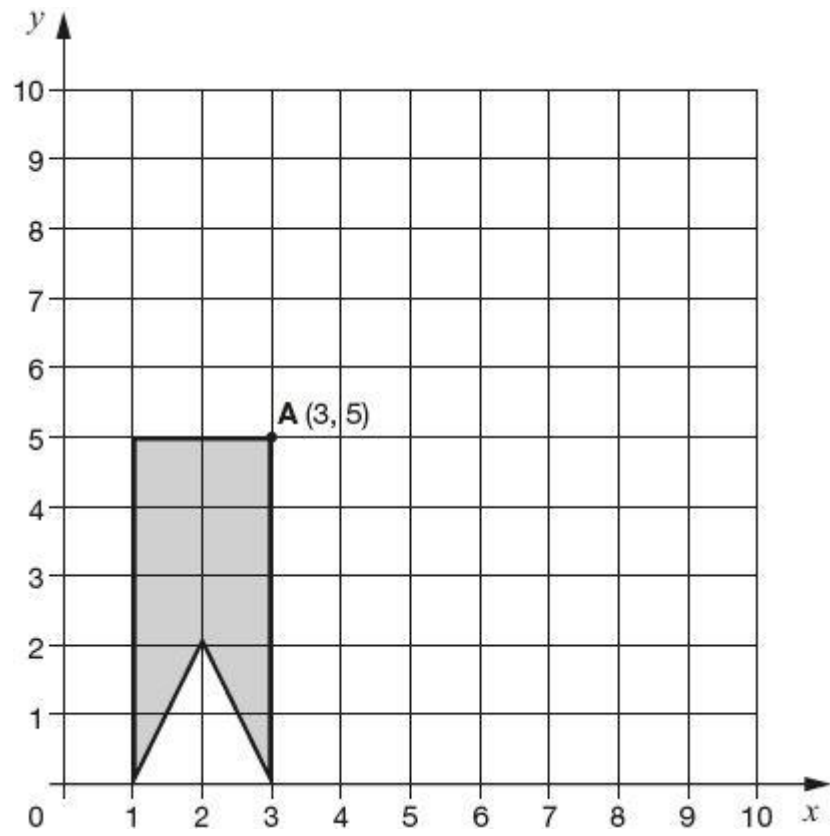
**Q2.**

Here is a shape on a grid.

The shape is translated so that point **A** moves to  $(7, 8)$ .

Draw the shape in its new position.

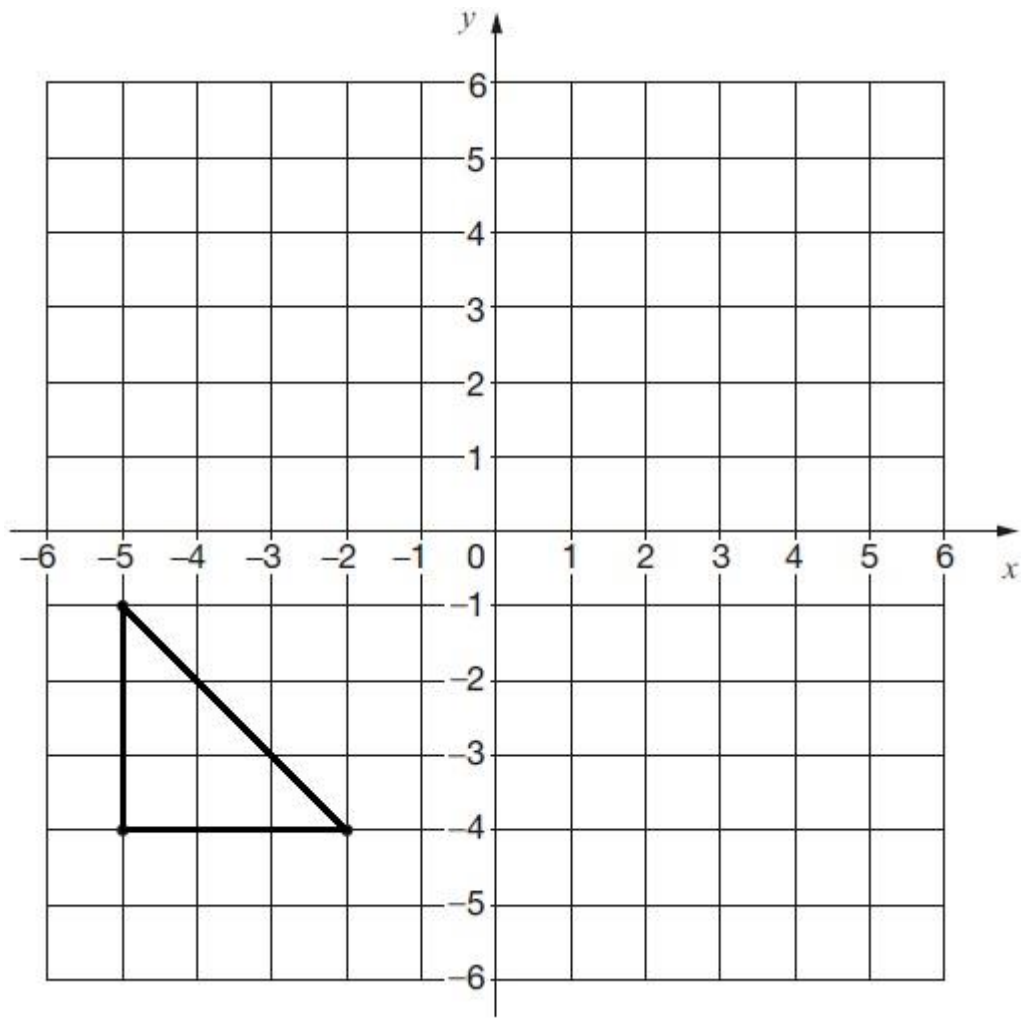
Use a ruler.



1 mark

**Q3.**

Here is a triangle drawn on a coordinate grid.



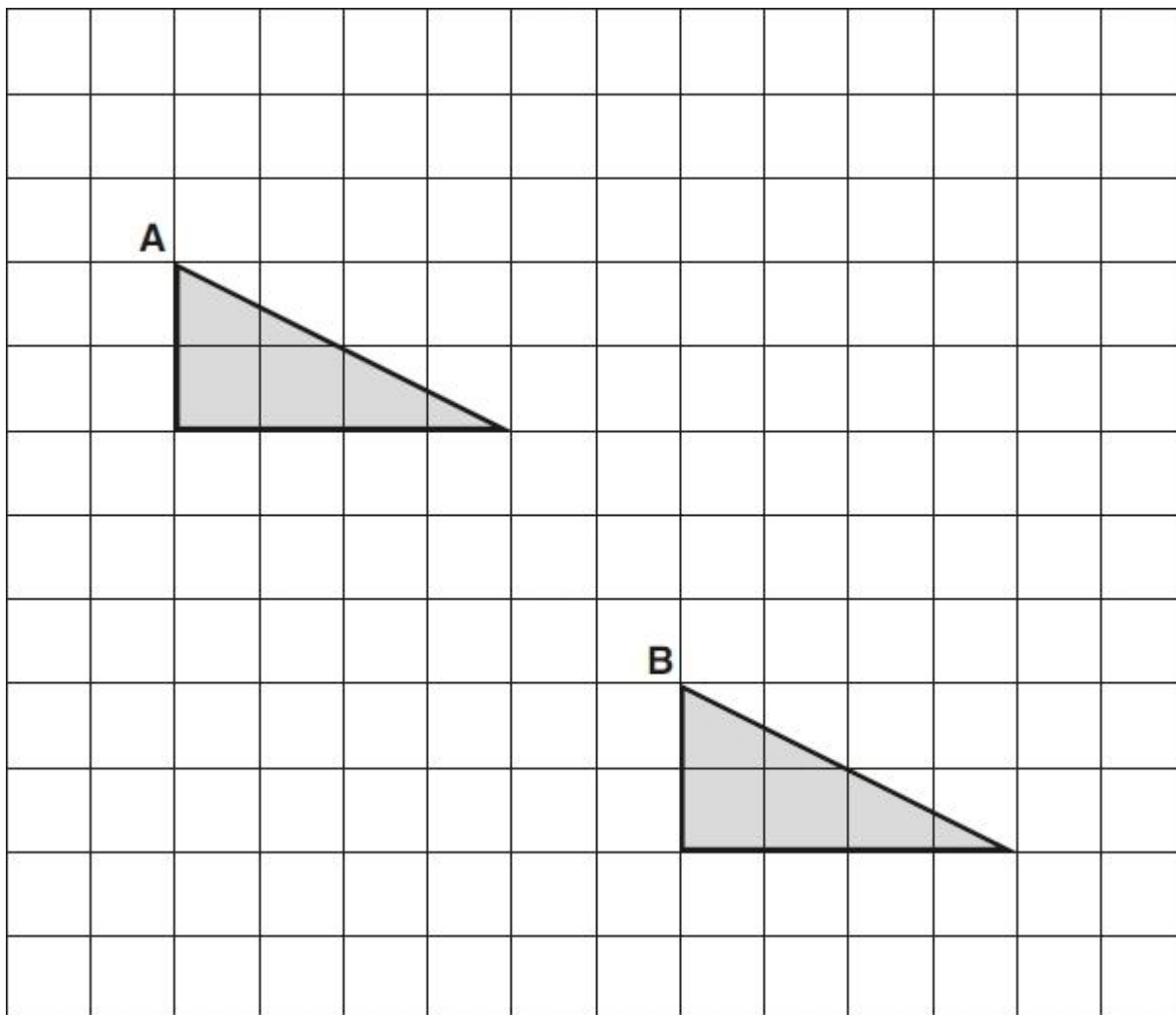
The triangle is translated **7 right** and **5 up**.

Draw the triangle in its new position.

1 mark

**Q4.**

A triangle is translated from position **A** to position **B**.



Complete the sentence.

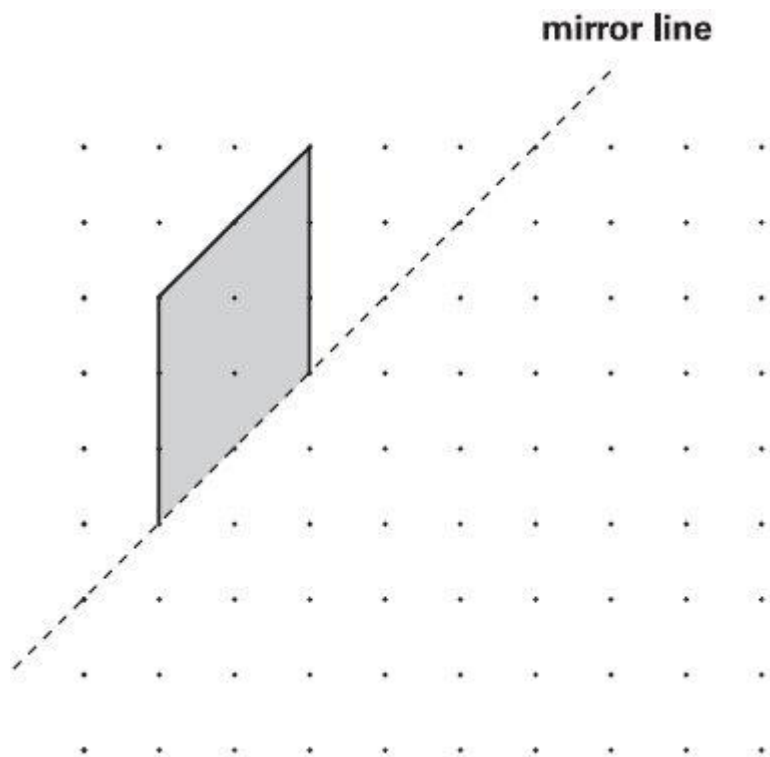
The triangle has  
moved  squares to the  
right  
and  squares down.

1 mark

**Q5.**

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

Use a ruler.

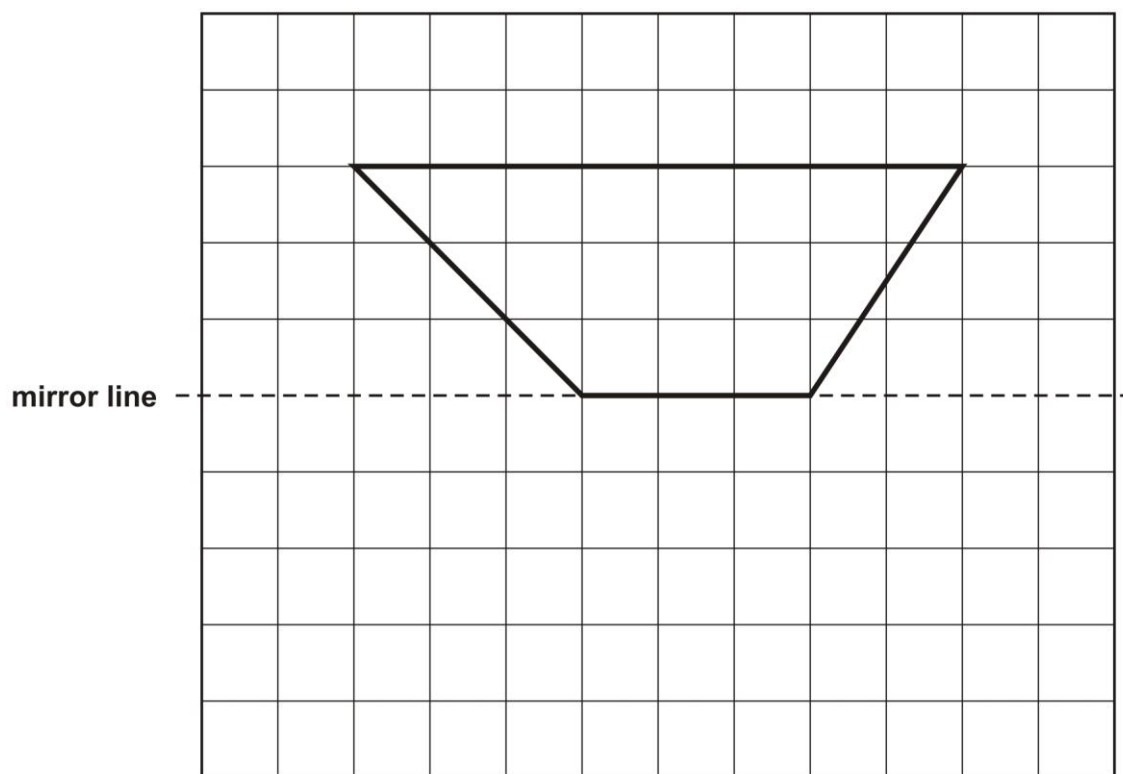


1 mark

**Q6.**

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

Use a ruler.

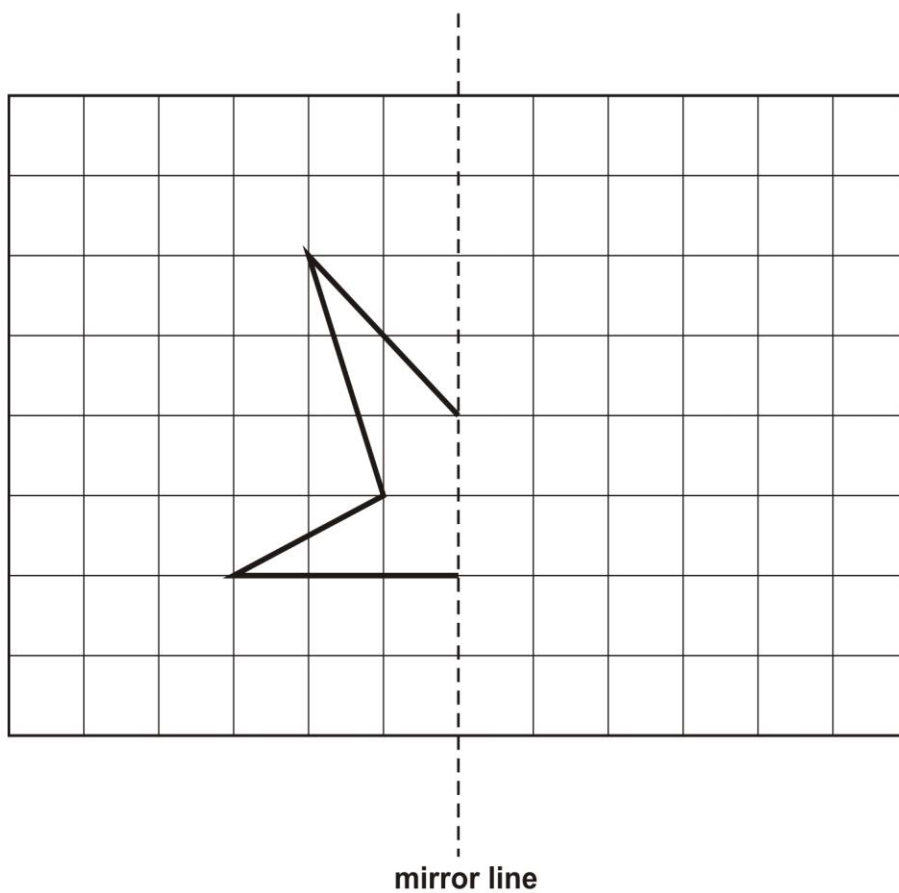


1 mark

**Q7.**

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

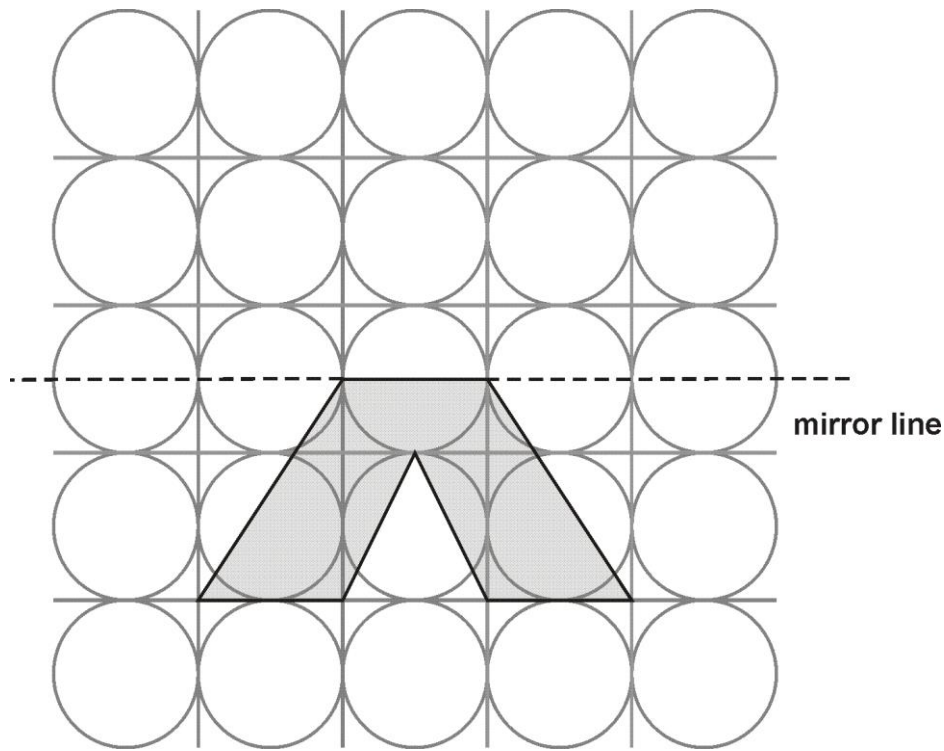
Use a ruler.



1 mark

**Q8.**

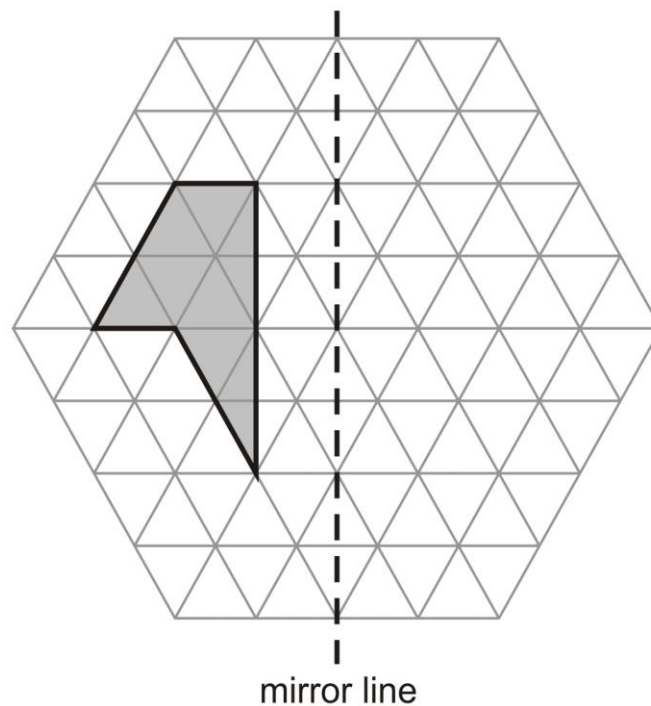
Draw the reflection of the shaded shape in the mirror line.



1 mark

**Q9.**

Draw the reflection of the shaded shape in the mirror line.



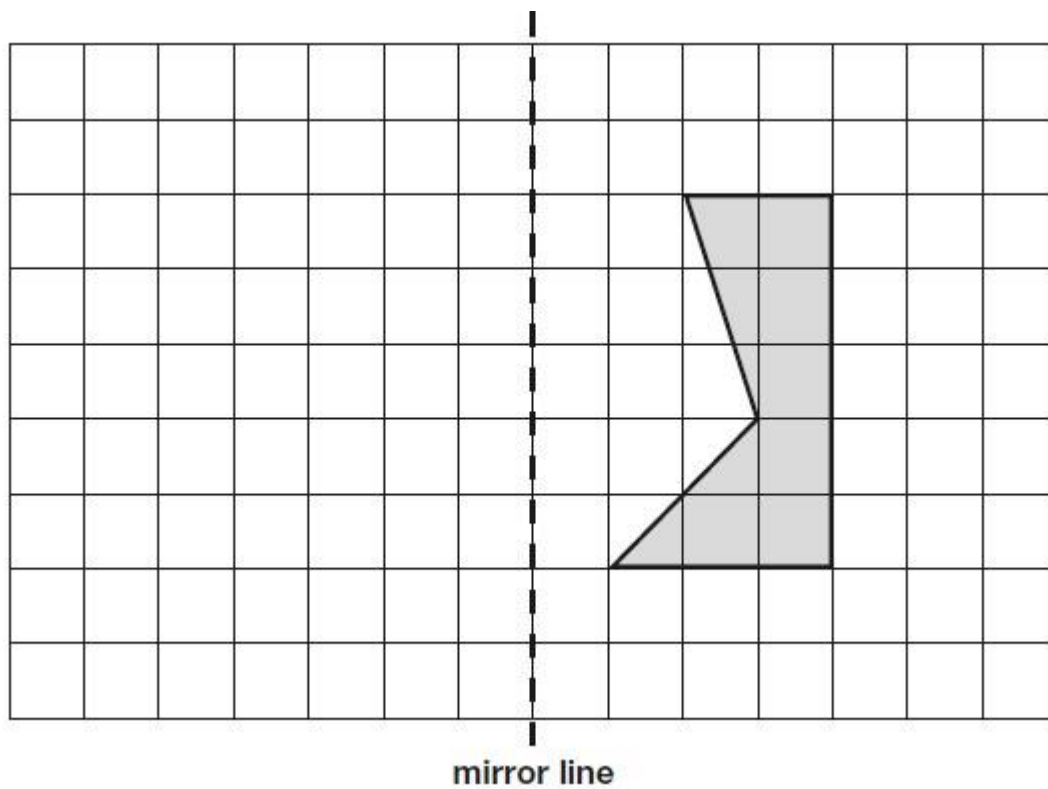
1 mark

**Q10.**

Here is a shaded shape on a square grid.

Reflect the shape in the mirror line.

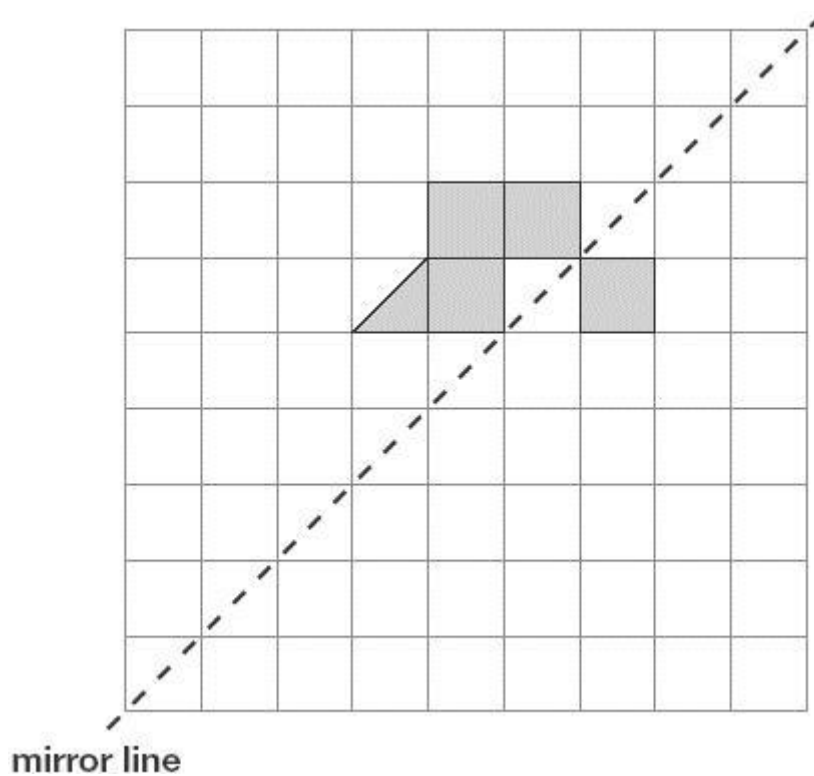
Use a ruler.



1 mark

**Q11.**

Shade **two** squares and **one** triangle to make this design symmetrical about the mirror line.



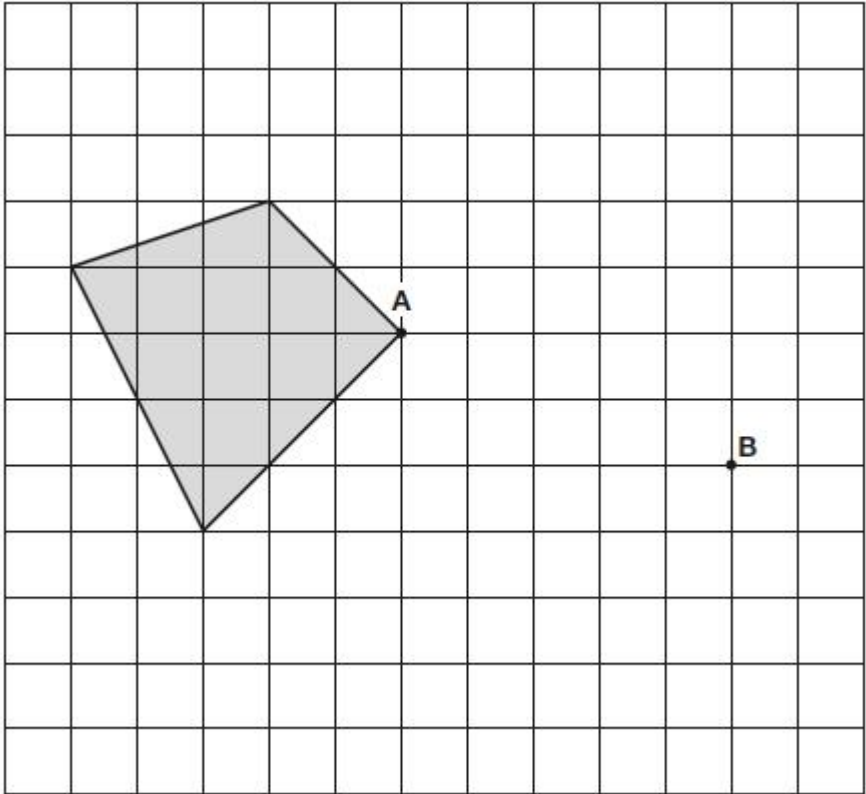
**Q12.**

Here is a shaded shape on a grid.

The shape is translated so that point **A** moves to point **B**.

Draw the shape in its new position.

Use a ruler.



2 marks

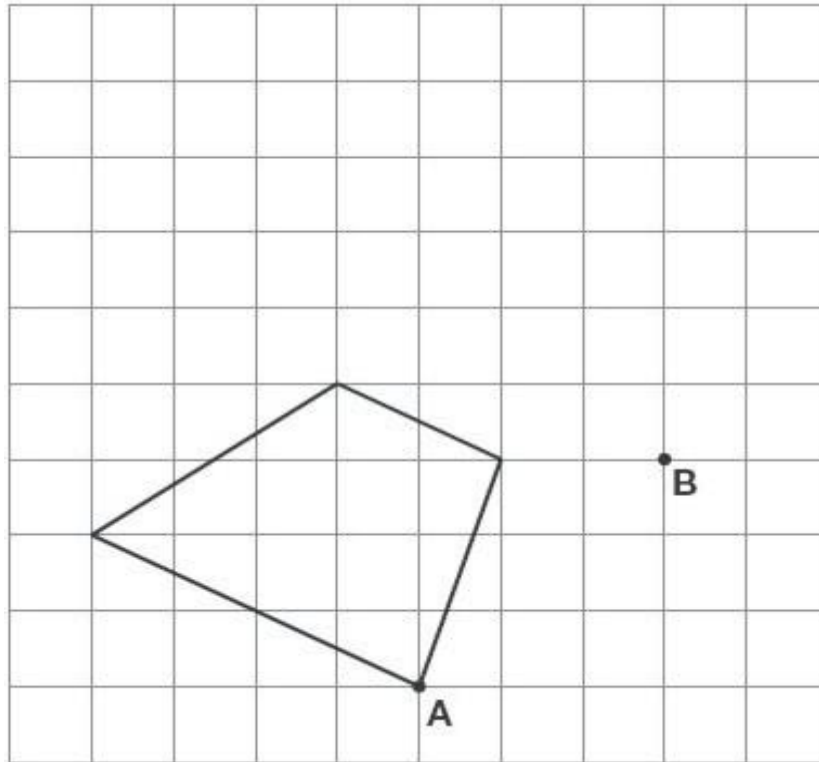
**Q13.**

Here is a quadrilateral on a square grid.

The quadrilateral is translated so that point **A** moves to point **B**.

Draw the quadrilateral in its new position.

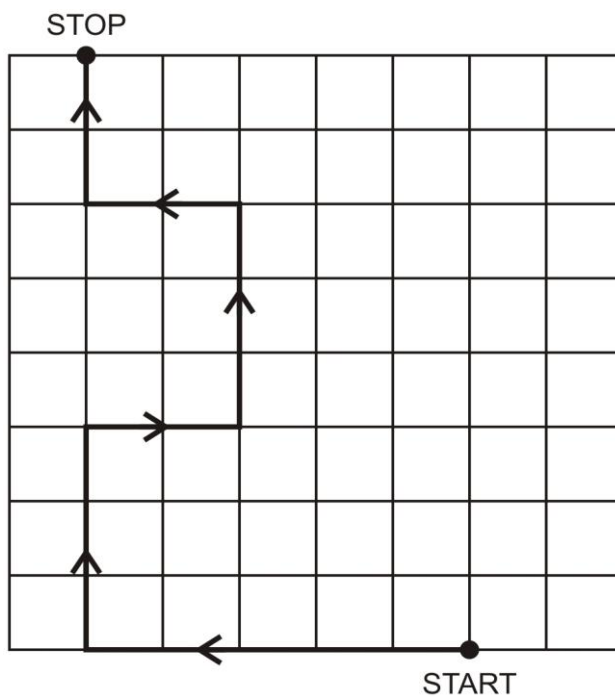
Use a ruler.



1 mark

**Q14.**

Follow this route with your pencil.



Complete this chart showing the route from START to STOP.

START
-------

left 5

up 3

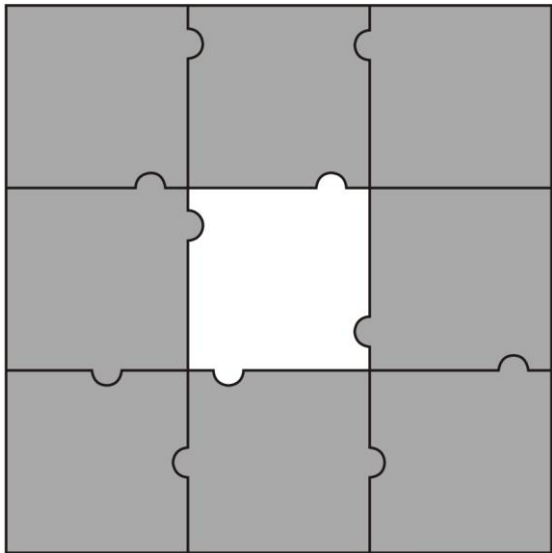
right 2

STOP

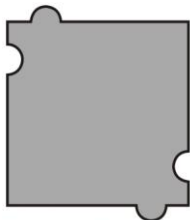
1 mark

Q15.

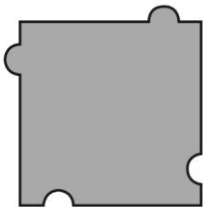
Here is a jigsaw with one piece **missing**.



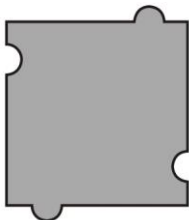
Which **one** of the pieces below fits the hole in the middle?



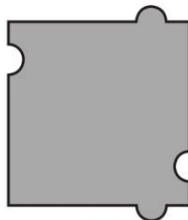
A



B



C

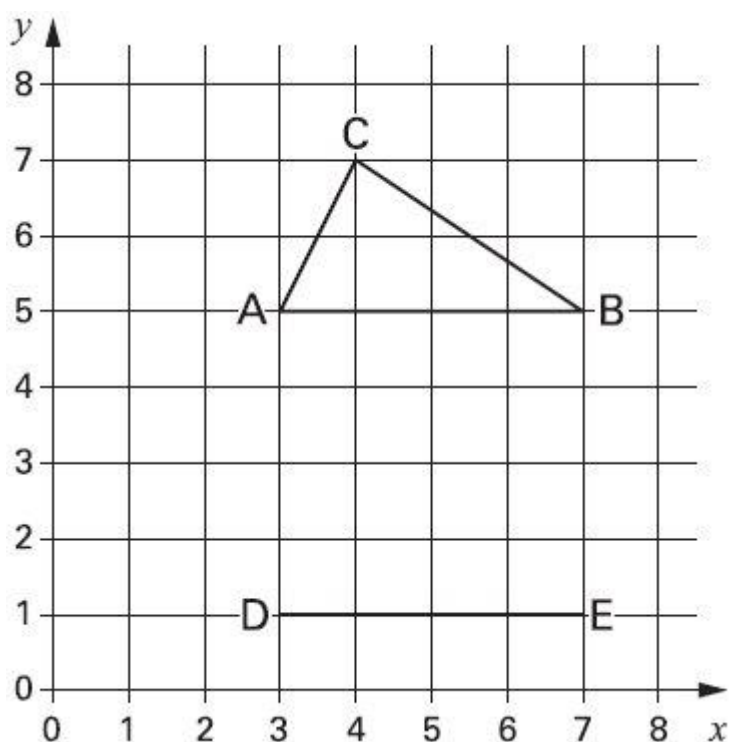


D

1 mark

**Q16.**

Kyle has drawn triangle **ABC** on this grid.



Holly has started to draw an **identical** triangle **DEF**.

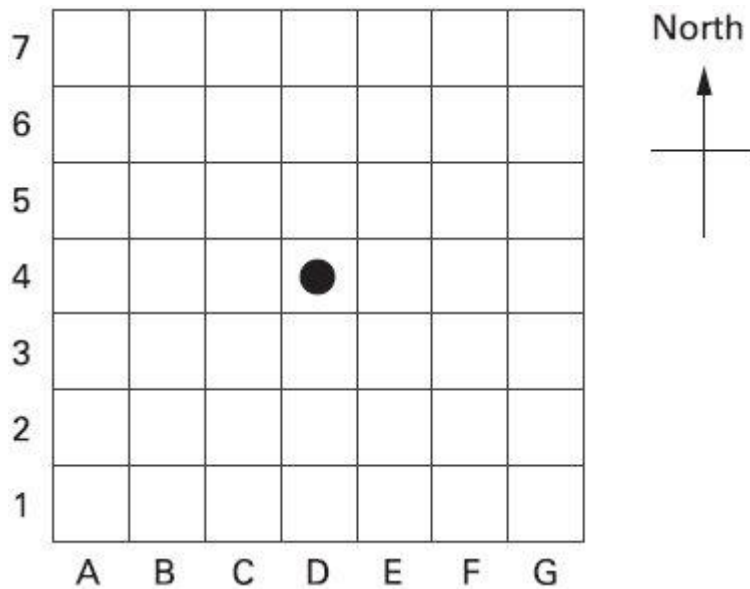
What will be the coordinates of point **F**?

(       ,       )
-------------------

1 mark

**Q17.**

Lisa places a counter on square **D4**



She moves it 2 squares east and 3 squares south.

Write the position of the square she moves it to.

1 mark

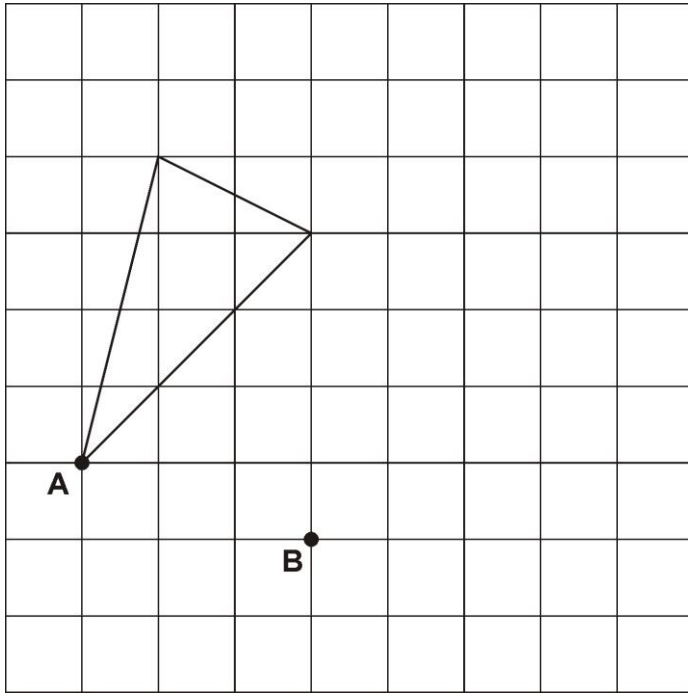
### Q18.

Here is a triangle on a square grid.

The triangle is translated so that point **A** moves to point **B**.

Draw the triangle in its new position.

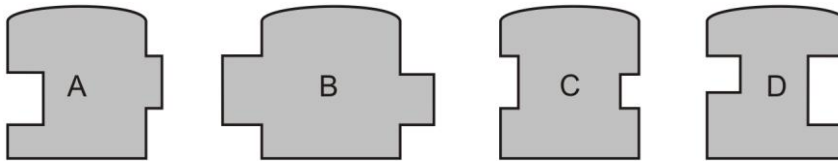
Use a ruler.



1 mark

### Q19.

Here are four shapes.



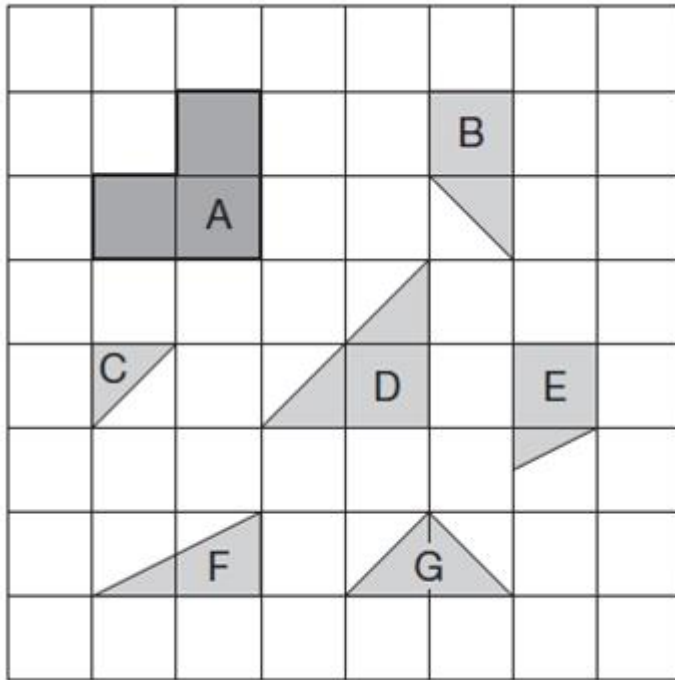
They can be fitted together in a straight line so that there are no gaps between them.

Write the order of the letters of the shapes when they all fit together.

1 mark

### Q20.

Here are some tiles on a square grid.



Three different tiles can be fitted together without overlapping to make a shape identical to tile **A**.

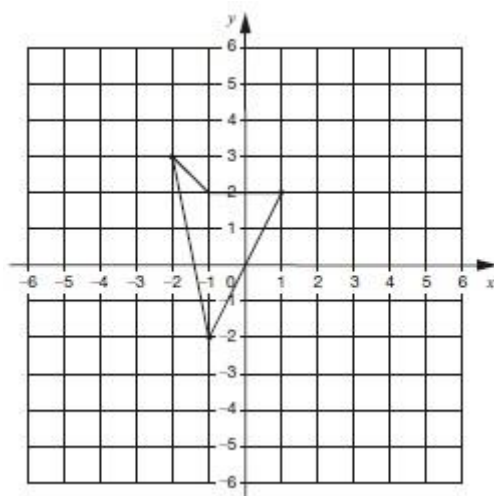
Write the letters of the three tiles.

\_\_\_\_\_ and \_\_\_\_\_ and \_\_\_\_\_ 1 mark

## Mark schemes

### Q1.

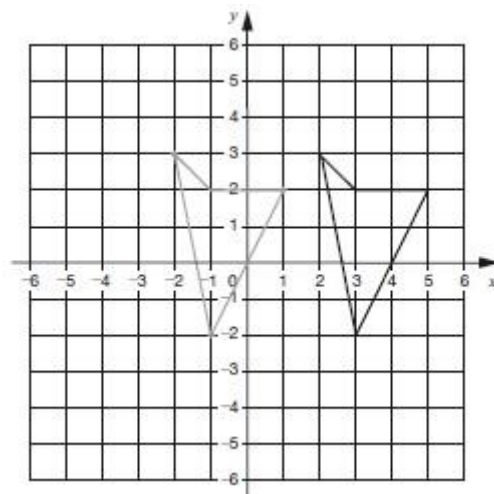
(a) Quadrilateral completed, as shown:



*Accept slight inaccuracies in drawing provided the intention is clear.*

1

(b) Quadrilateral translated correctly, as shown:



*Accept slight inaccuracies in drawing provided the intention is clear.*

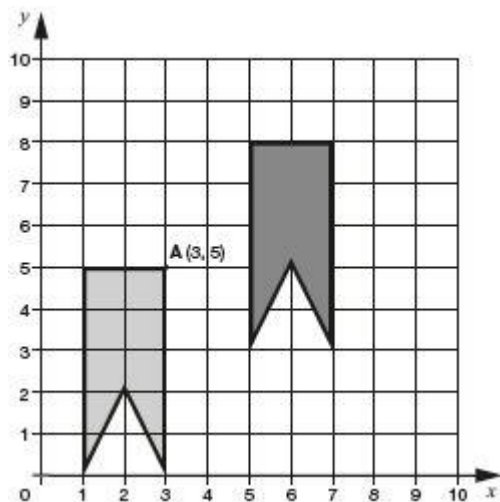
*Award **ONE** mark if the answer to (b) is a quadrilateral with sides drawn and is a correct translation of their answer to (a).*

1

[2]

### Q2.

Shape located correctly, as shown:

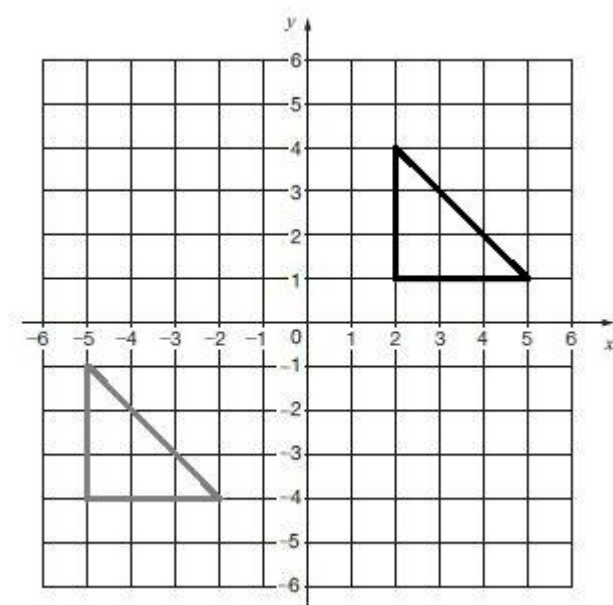


Accept slight inaccuracies in drawing (see guidance).  
Shape need not be shaded for the award of **ONE** mark.

[1]

**Q3.**

Triangle with vertices at (2,1) **AND** (2,4) **AND** (5,1) drawn on the grid as shown:



Accept slight inaccuracies in drawing

[1]

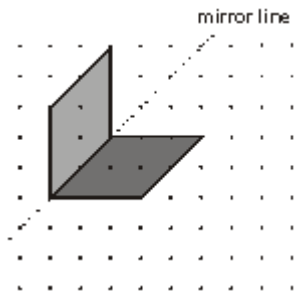
**Q4.**

The triangle has moved  squares to the right  
and  squares down.

[1]

**Q5.**

Diagram completed as shown:



*Accept slight inaccuracies in drawing, provided the intention is clear.*

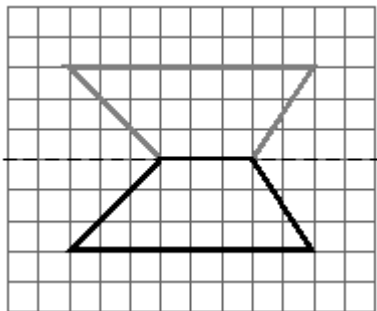
*Vertices must be within 2 mm of the correct grid points.*

*The reflection need not be shaded.*

[1]

**Q6.**

Diagram completed as shown:

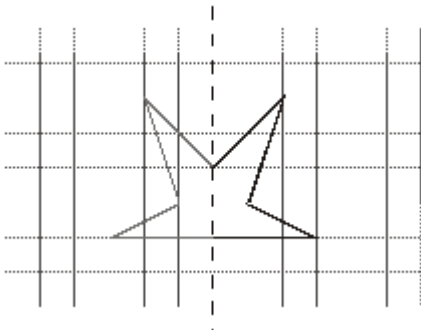


*Accept slight inaccuracies in drawing provided the intention is clear.*

[1]

**Q7.**

Diagram completed correctly as shown:

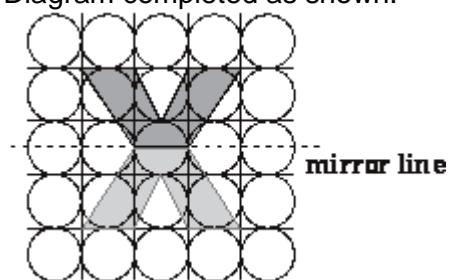


*Accept slight inaccuracies in drawing, provided the intention is clear.*

[1]

**Q8.**

Diagram completed as shown:

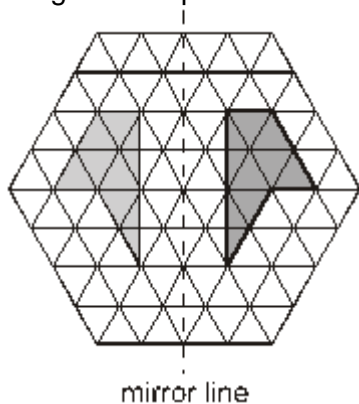


*Accept slight inaccuracies in drawing.  
Shape need not be shaded.*

[1]

**Q9.**

Diagram completed as shown:

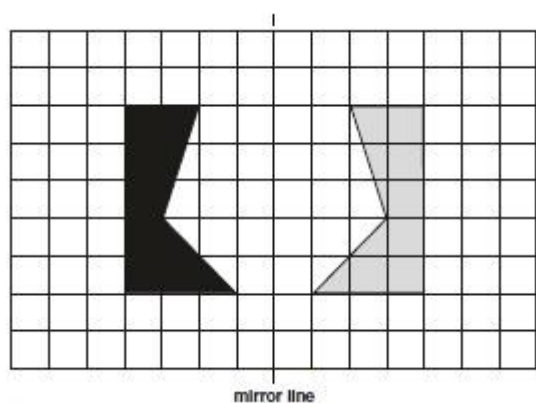


*Accept slight inaccuracies in drawing  
Shape need not be shaded.*

[1]

**Q10.**

Diagram completed, as shown:

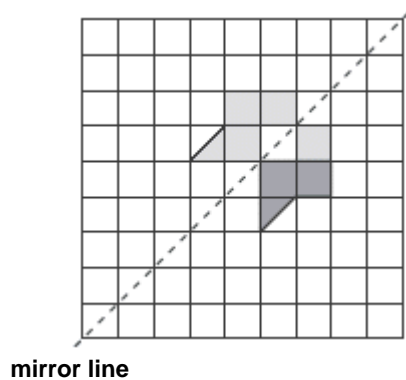


*Accept slight inaccuracies in drawing.  
Shape need not be shaded for the award of **ONE** mark.*

[1]

**Q11.**

Diagram completed as shown:

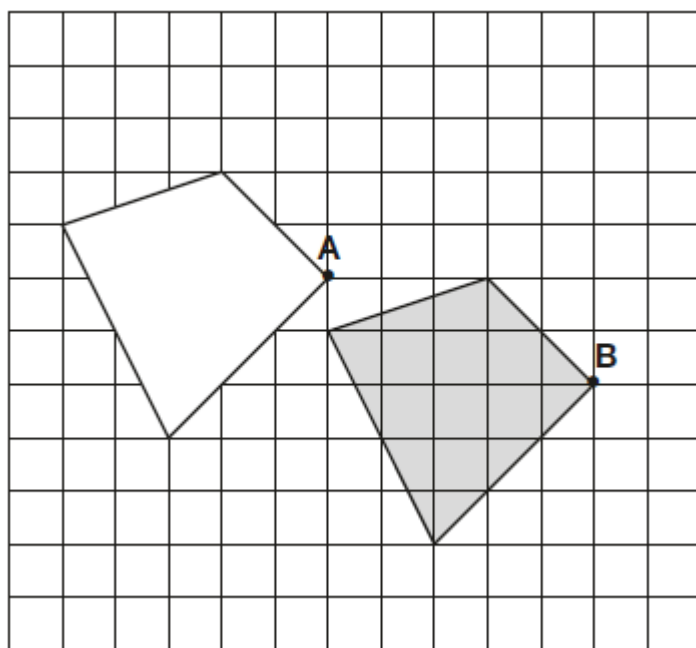


*Accept inaccurate drawing provided the intention is clear.*

[1]

**Q12.**

Award **TWO** marks for three vertices of the shape, excluding B, translated correctly as shown below:



If the answer is incorrect, award **ONE** mark for two vertices, excluding B, translated correctly.

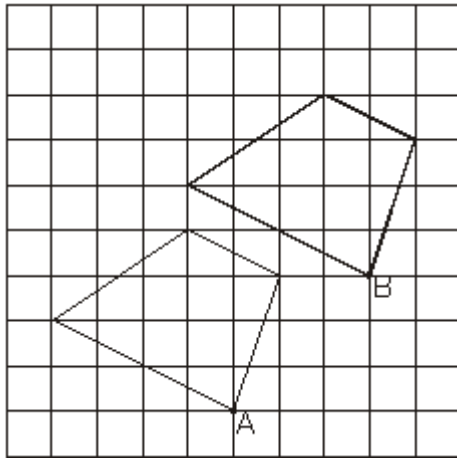
*Accept slight inaccuracies in drawing provided intention is clear.*

Up to 2

[2]

**Q13.**

Diagram completed as shown:



*Accept slight inaccuracies in drawing*

[1]

**Q14.**

up 3  
left 2  
up 2

*All correct for 1 mark.*

[1]

**Q15.**

C

*Accept alternative, unambiguous indications of the answer such as a cross on shape C or a line from C to the hole.*

[1]

**Q16.**

(4, 3)

*Coordinates must be written in the correct order.*

*Accept (6, 3), (4, -1) or (6 - 1)*

*Accept answers written on the diagram, with or without brackets and commas.*

[1]

**Q17.**

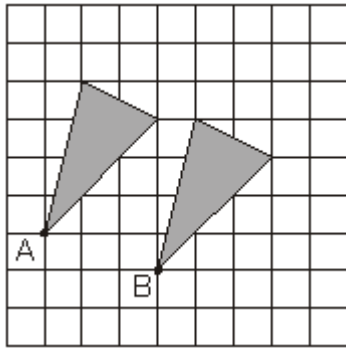
F1

***Do not*** accept 1F.

[1]

**Q18.**

Diagram completed as shown:



*Accept slight inaccuracies in drawing  
(see page 3 for guidance).*

[1]

**Q19.**

D B A C

*Accept C A B D.*

U1

[1]

**Q20.**

B AND C AND G

*Letters may be given in any order.*

U1

[1]