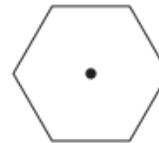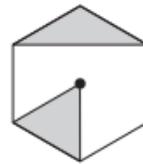# Translation - Questions

Key Stage 2: 2005 Paper B

1.

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

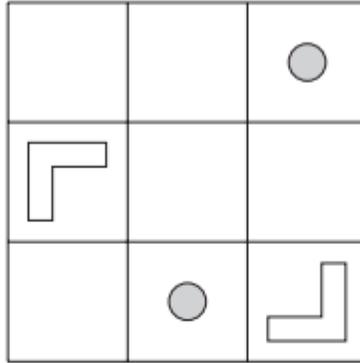Draw the two missing triangles on the last shape.
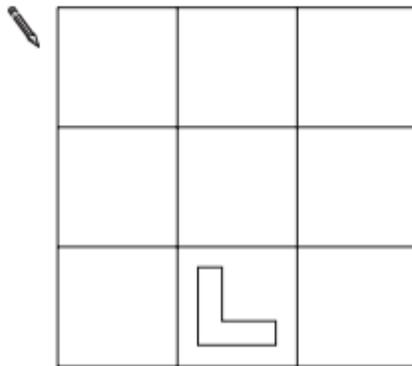

14

1 mark

Key Stage 2: 2006 Paper A

1.

16 There are four shapes on this diagram.

The diagram is turned to the new position below.

Draw the three missing shapes.

16i

_____
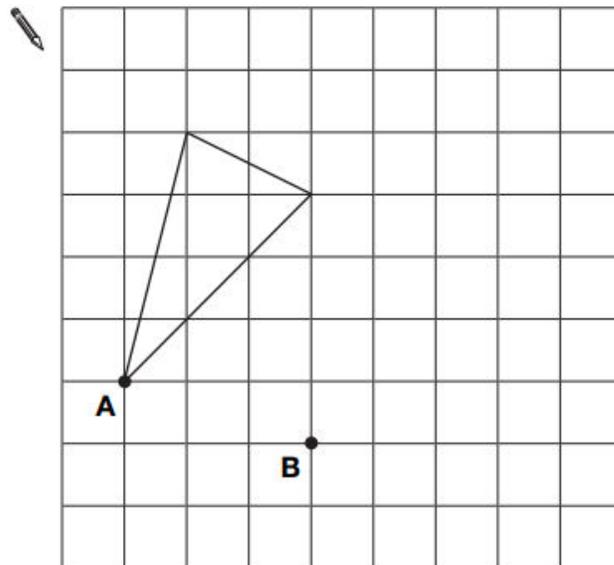
16ii

_____

2 marks

Key Stage 2: 2006 Paper B

1.

24 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

Key Stage 2: 2007 Paper A

1.

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.

☐   ☐   ☐   ☐   ☐
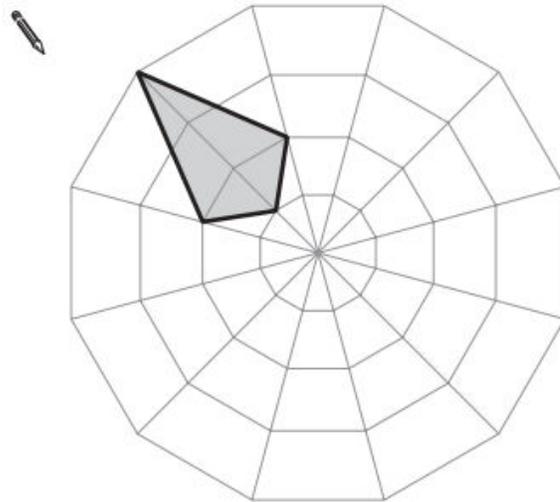
3

1 mark

Key Stage 2: 2007 Paper B

1.

20 Here is a shaded shape on a grid.

Jamie rotates the shape 90° **clockwise** about the centre of the grid.
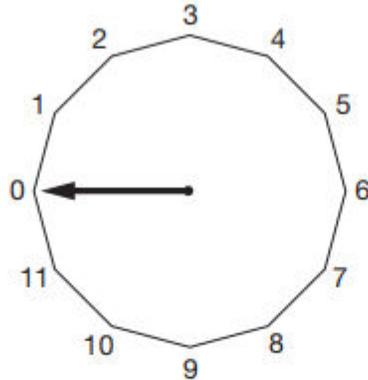
Draw the shaded shape in its new position.

20i
___

20ii
___

2 marks

Key Stage 2: 2008 Paper A

1.

18   This regular 12-sided shape has a number at each vertex.

Ben turns the pointer from zero, clockwise through 150°

Which number will the pointer now be at?

18a

1 mark

Nisha turns the pointer clockwise from number 2 to number 11

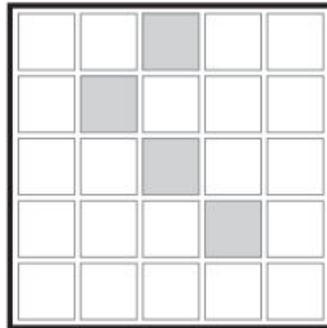Through how many degrees does the pointer turn?
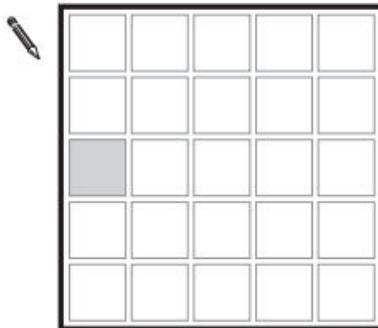
°

18b

1 mark

Key Stage 2: 2008 Paper B

1.

11 Ben makes this design on a grid.

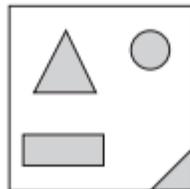He rotates the grid to a new position.

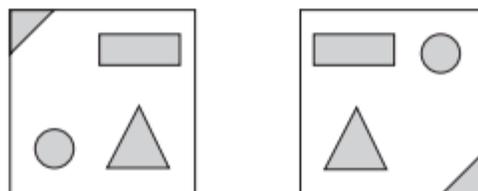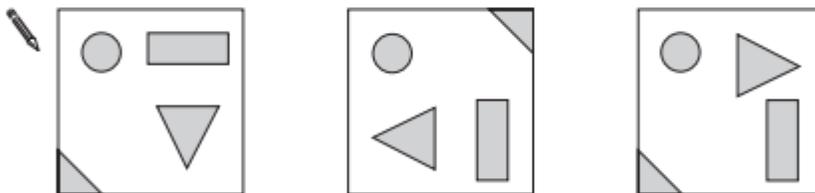Shade in the missing parts of the design.

1 mark

1.

3

Stefan makes this design on a square tile.

He turns the tile.

Put a tick (✓) on the tile below that has the same design as Stefan's tile.
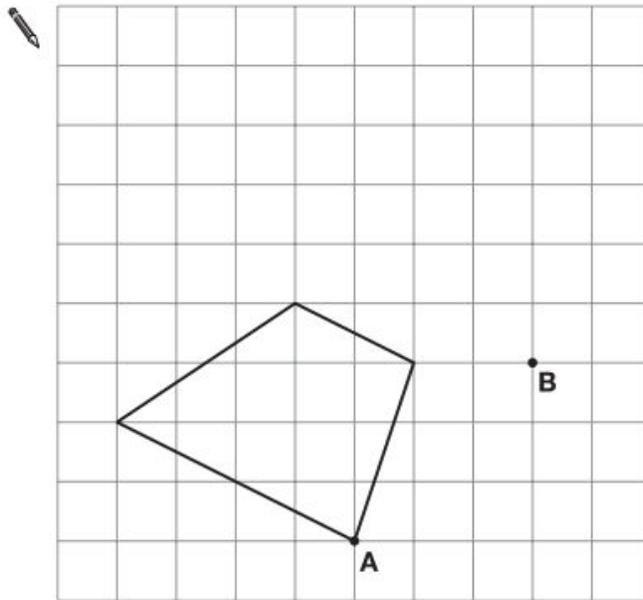

3

1 mark

Key Stage 2: 2010 Paper A

1.

24 Here is a quadrilateral on a square grid.

The quadrilateral is translated so that point **A** moves to point **B**.
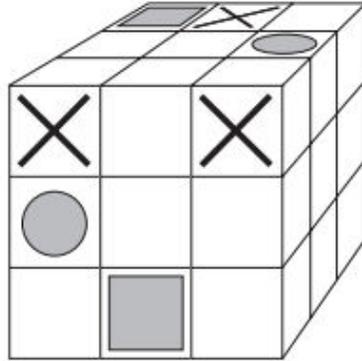
Draw the quadrilateral in its new position.
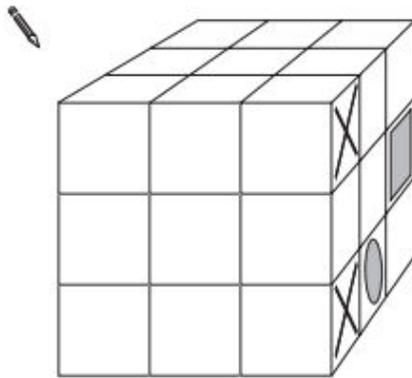
Use a ruler.

24

1 mark

1.

19 Cubes have been stuck together to make this block.

The block has a pattern on two faces.

The block is turned to the position below.

Draw the missing parts of the pattern on it.
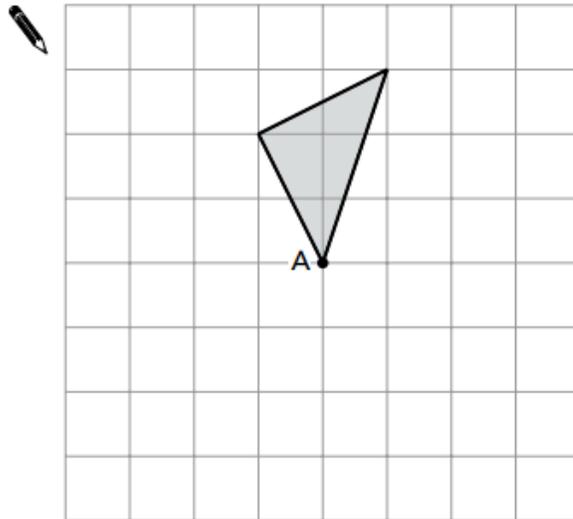

19i

19ii

2 marks

1.

---

1   Here is a shaded triangle on a square grid.

Draw the new position of the triangle when it is **rotated 180°** about point A.
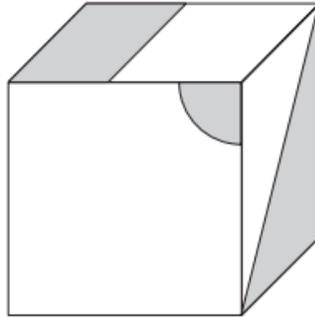

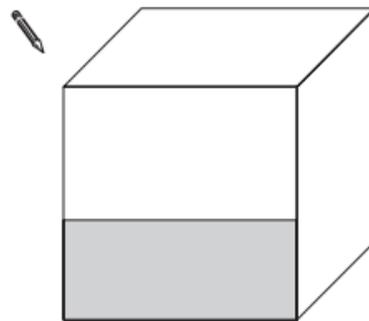*(1 mark)*

Key Stage 2: 2011 Paper A

1.

22 This cube has shapes drawn on three of its faces.

The cube is turned to look like this.

Draw and shade the missing shapes.
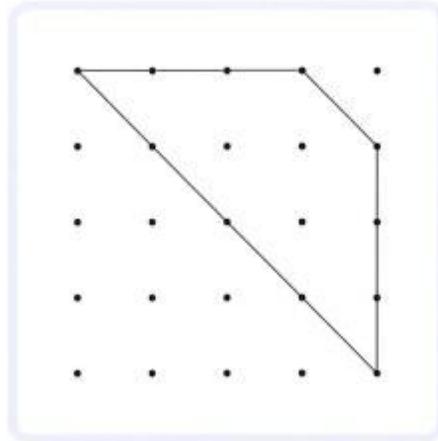

22a

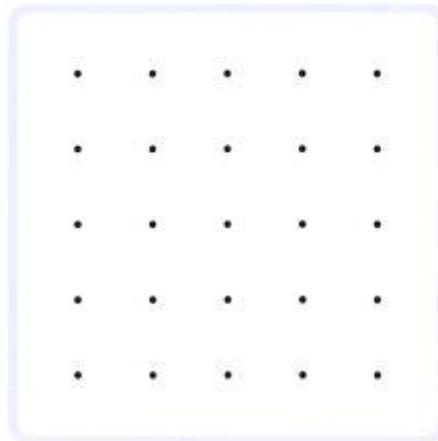1 mark

22b

1 mark

Key Stage 2: 2012 Paper A

1.

11 Kirsty draws this shape on a grid.

She turns her grid one quarter turn clockwise.

Draw the shape in its new position after the turn.
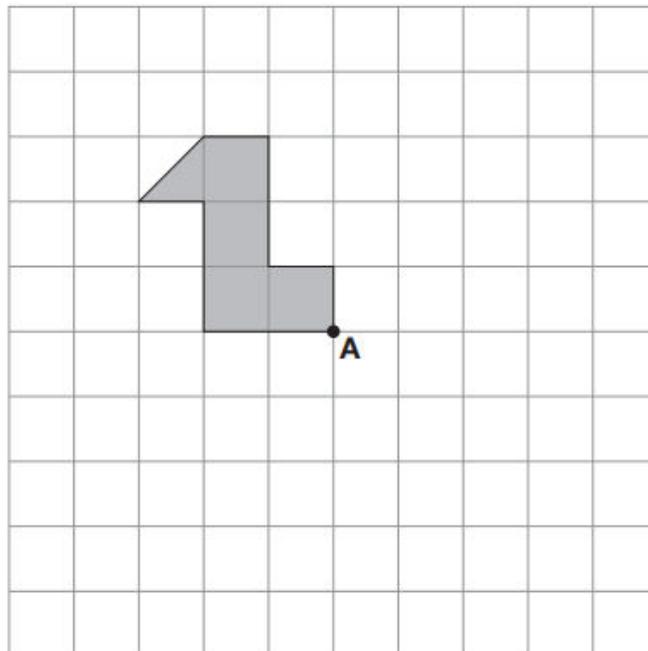
Use a ruler.

Key Stage 2: 2013 Paper B

1.

19 Here is a shaded shape drawn on a square grid.

The shape is rotated 180° about point A.

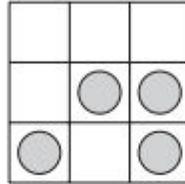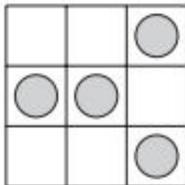Draw the shape in its new position on the grid.

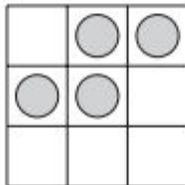19i

19ii

2 marks

Key Stage 2: 2014 Paper A

1.

1   This grid has a pattern of four circles on it.
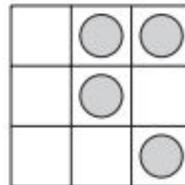
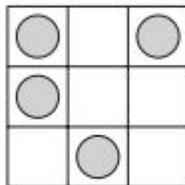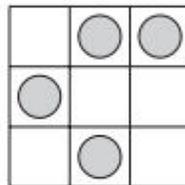Write the letter of the grid below that has the same pattern as the grid above.
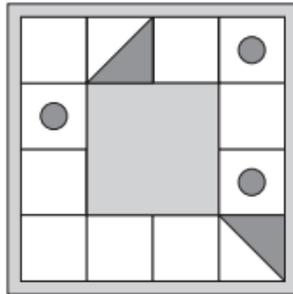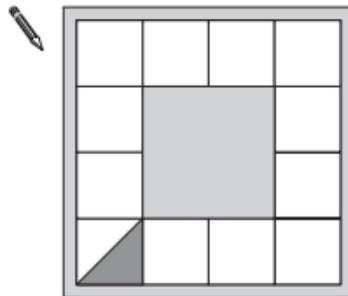
A

B

C

D

E

1 mark

1.

13 Here is a design of dots and triangles on a square tile.

The tile is turned clockwise to the position below.

Shade the missing shapes in their new positions.

13i

_____

13ii

_____

2 marks

Key Stage 2: 2015 Paper B

1.

7 Megan has a rectangular tile with this design on it.

Here are five more rectangular tiles.

A

B

C

D

E

Write the letters of **all** the tiles that have the same design as Megan's tile.

7i

7ii

2 marks

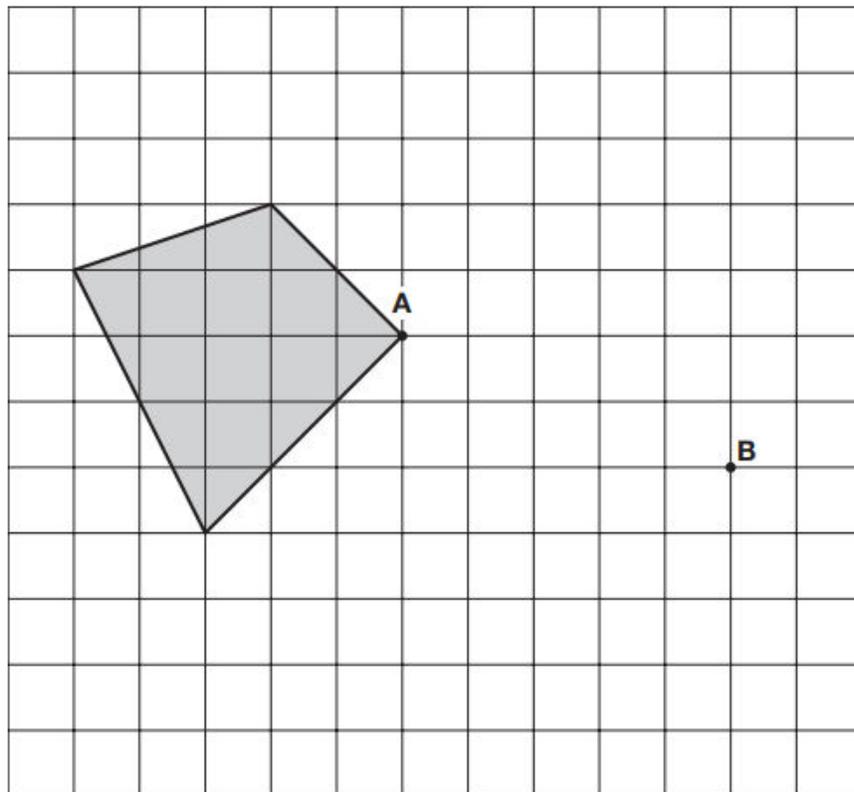Key Stage 2: 2016 Paper 3 Reasoning - Sample

1.

8

Here is a shaded shape on a grid.

The shape is translated so that point **A** moves to point **B**.
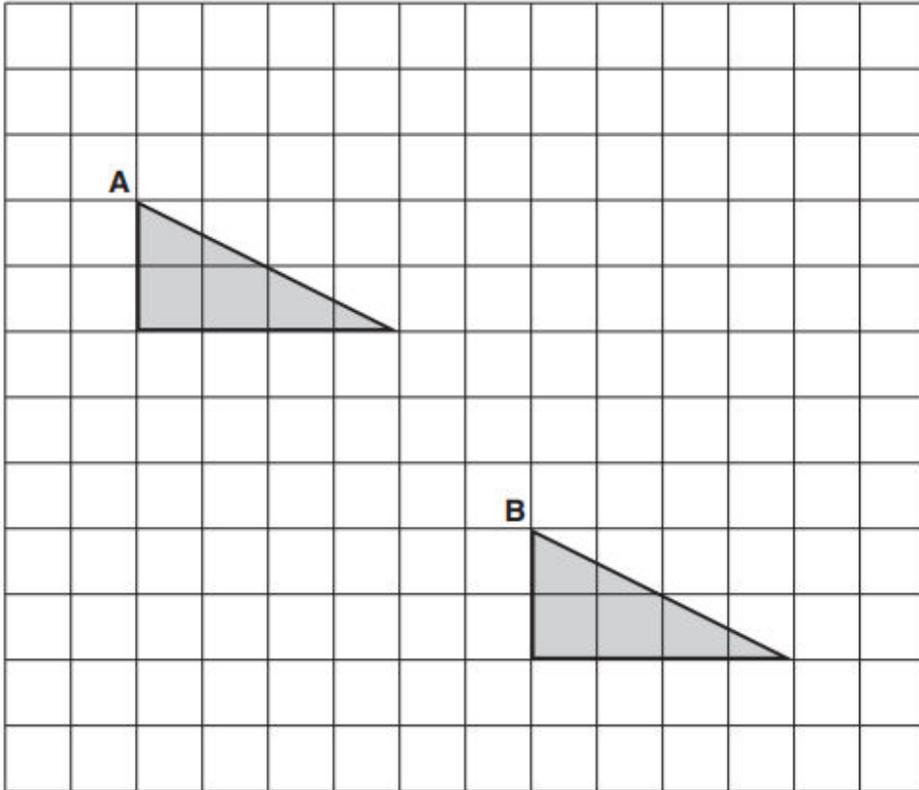
Draw the shape in its new position.

Use a ruler.

2 marks

1.

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

Complete the sentence.

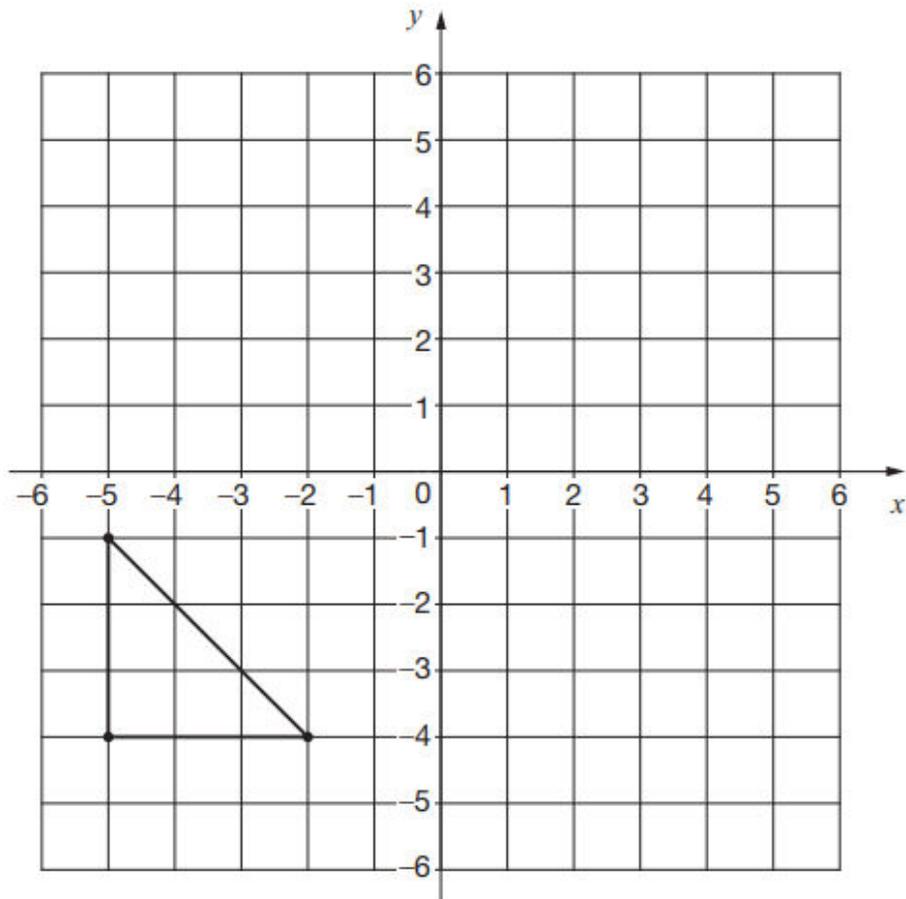The triangle has moved ☐ squares to the right

and ☐ squares down.

1 mark

1.

7   Here is a triangle drawn on a coordinate grid.

1 mark

The triangle is translated **7 right** and **5 up**.
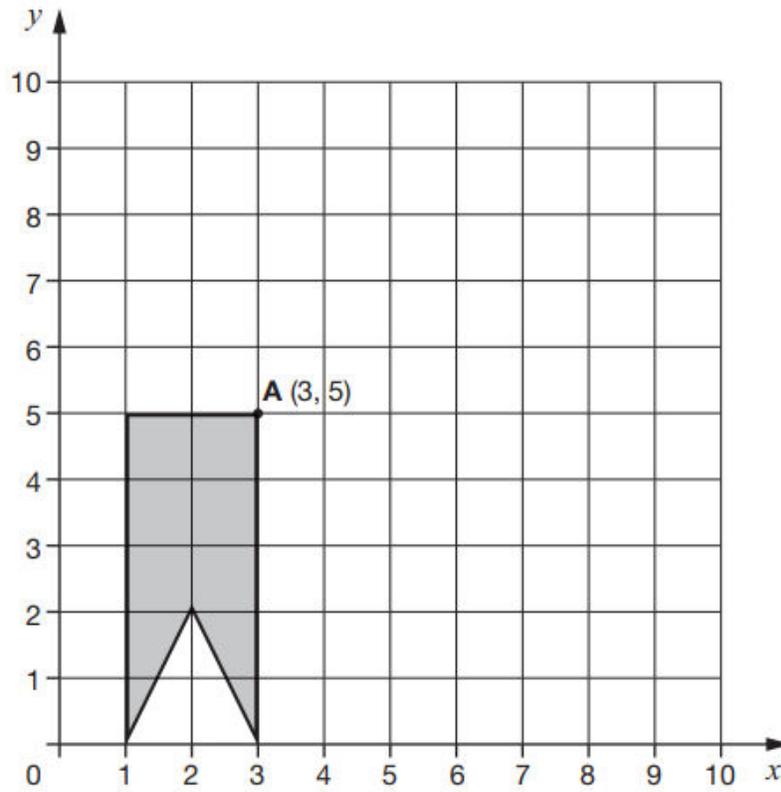
Draw the triangle in its new position.

1.

12   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.
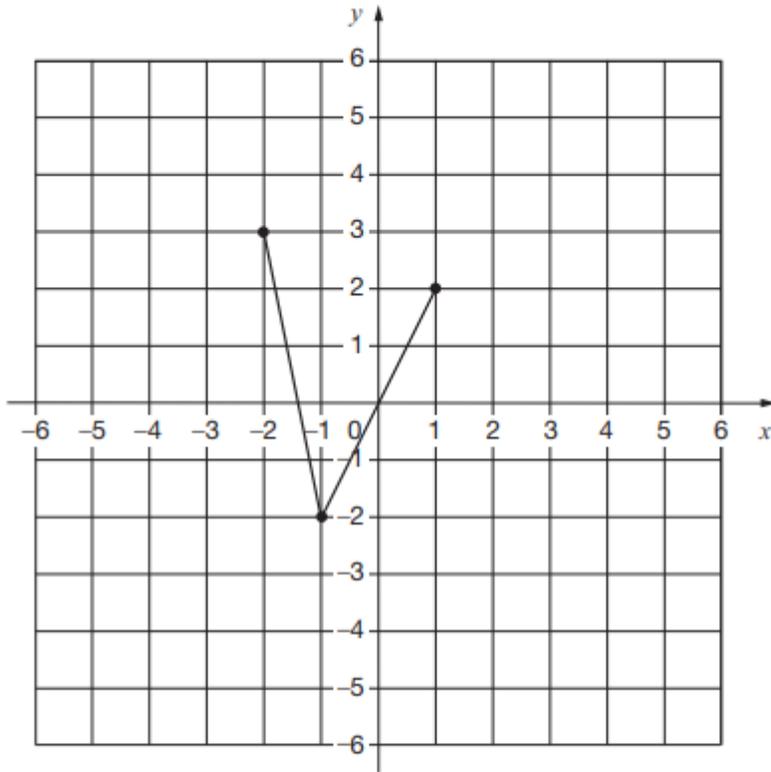
Use a ruler.

A (3, 5)

1 mark

Key Stage 2: 2019 Paper 3 Reasoning

1.

10   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