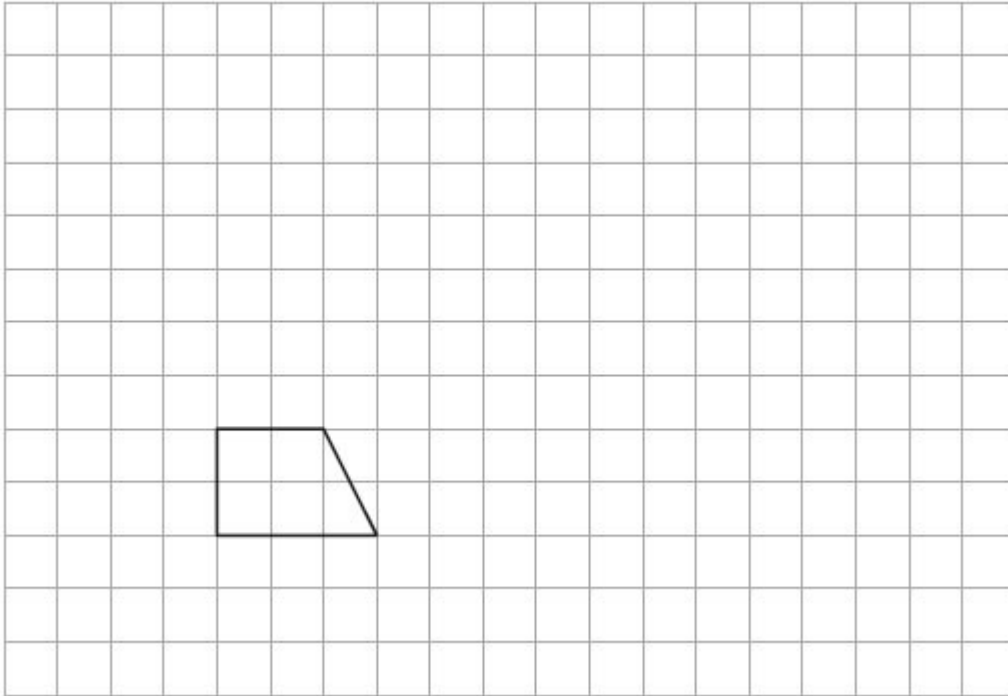


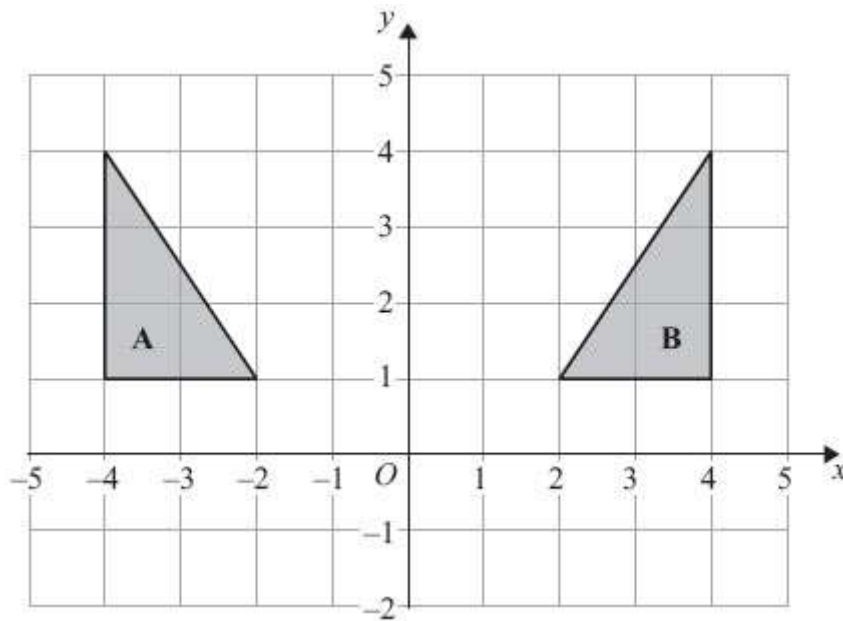
## GCSE QUESTIONS

**Q1. NON-CALCULATOR**

Here is a shape drawn on a grid.



(a) On this grid, draw an enlargement of the shape with scale factor 3



(b) Describe fully the single transformation that maps shape **A** onto shape **B**.

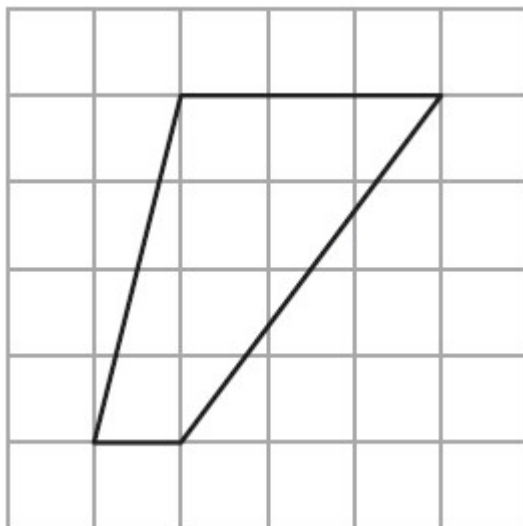
.....  
 .....

(2)

(Total for Question is 4 marks)

**Q2. NON-CALCULATOR**

A quadrilateral has been drawn on a centimetre grid.



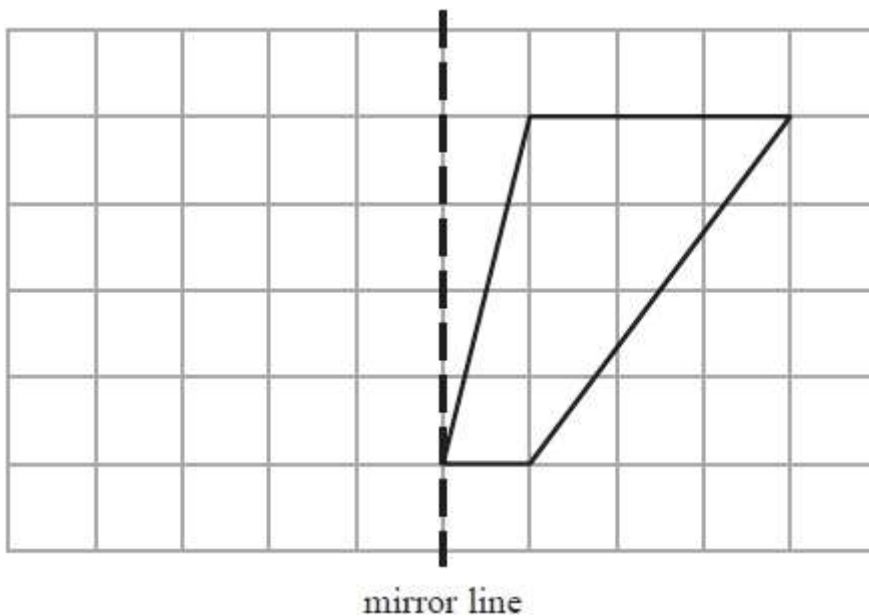
(a) Write down the mathematical name of this quadrilateral.

.....  
(1)

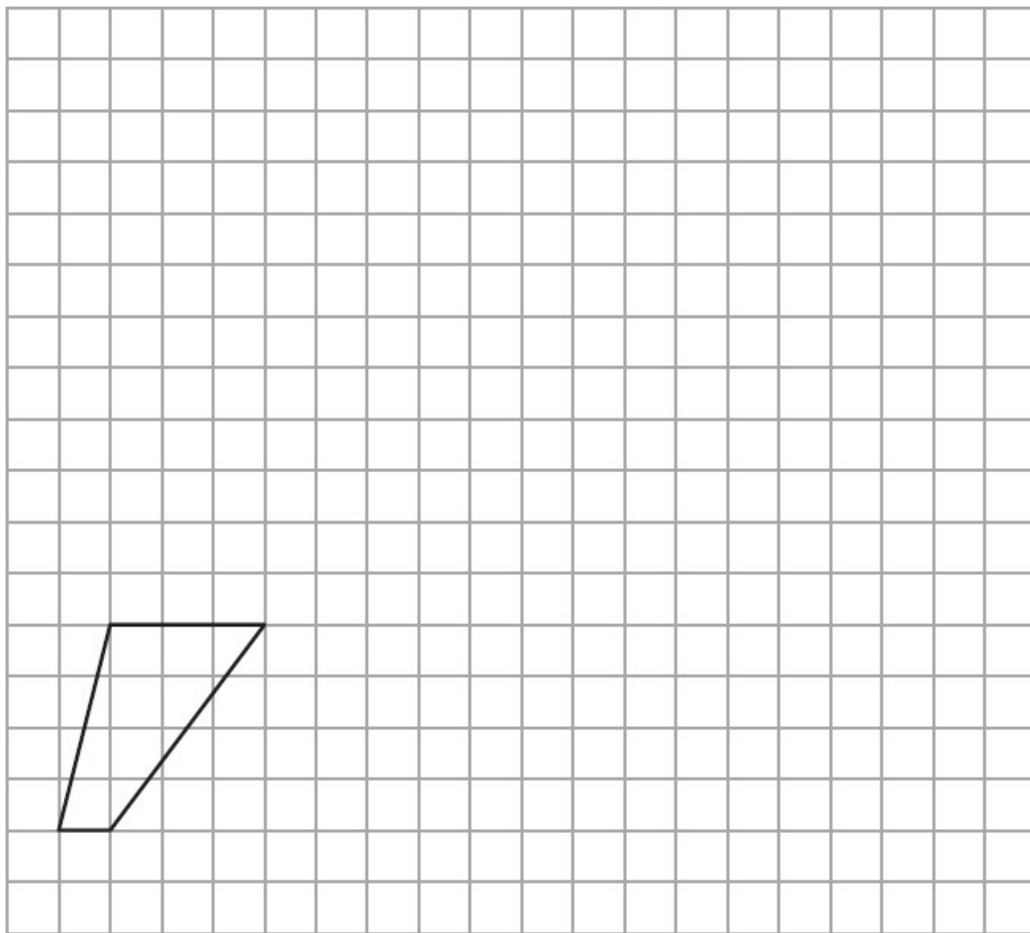
(b) Work out the area of the quadrilateral.

..... cm<sup>2</sup>  
(2)

(c) On the grid below, reflect the quadrilateral in the mirror line.



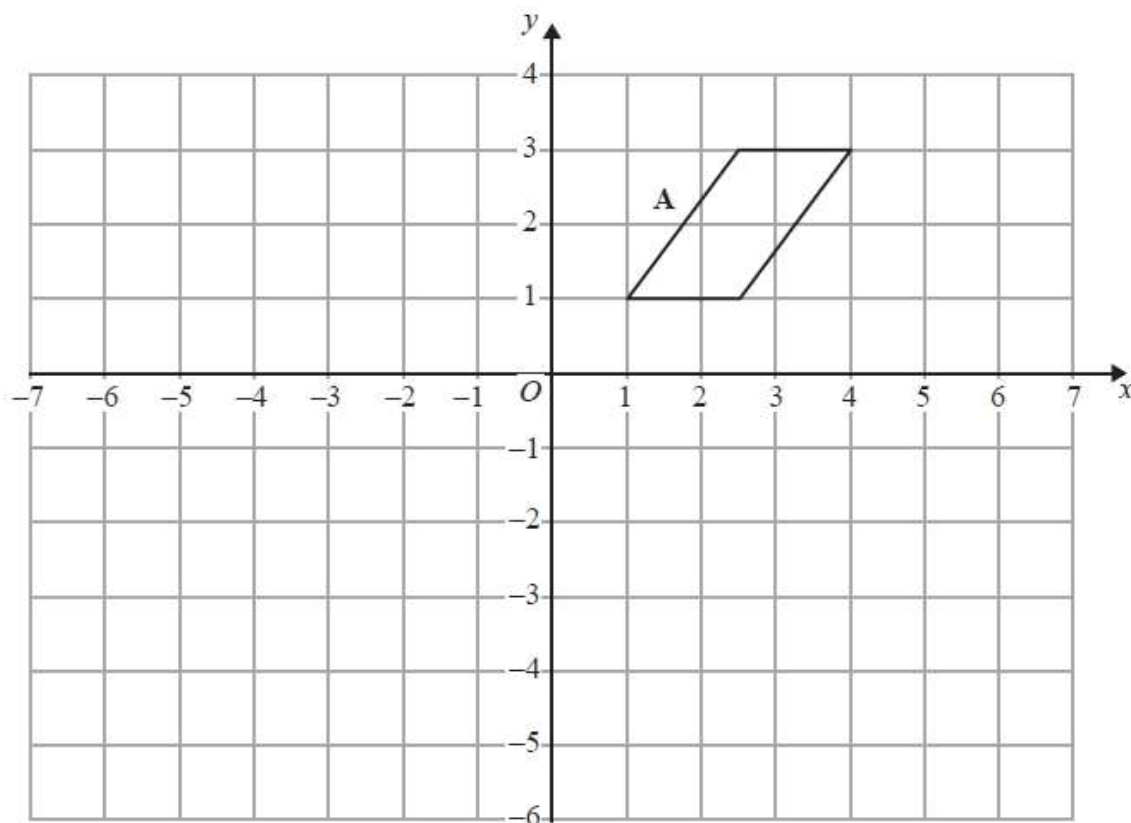
(2)



(d) On the grid, draw an enlargement of the quadrilateral with a scale factor of 3

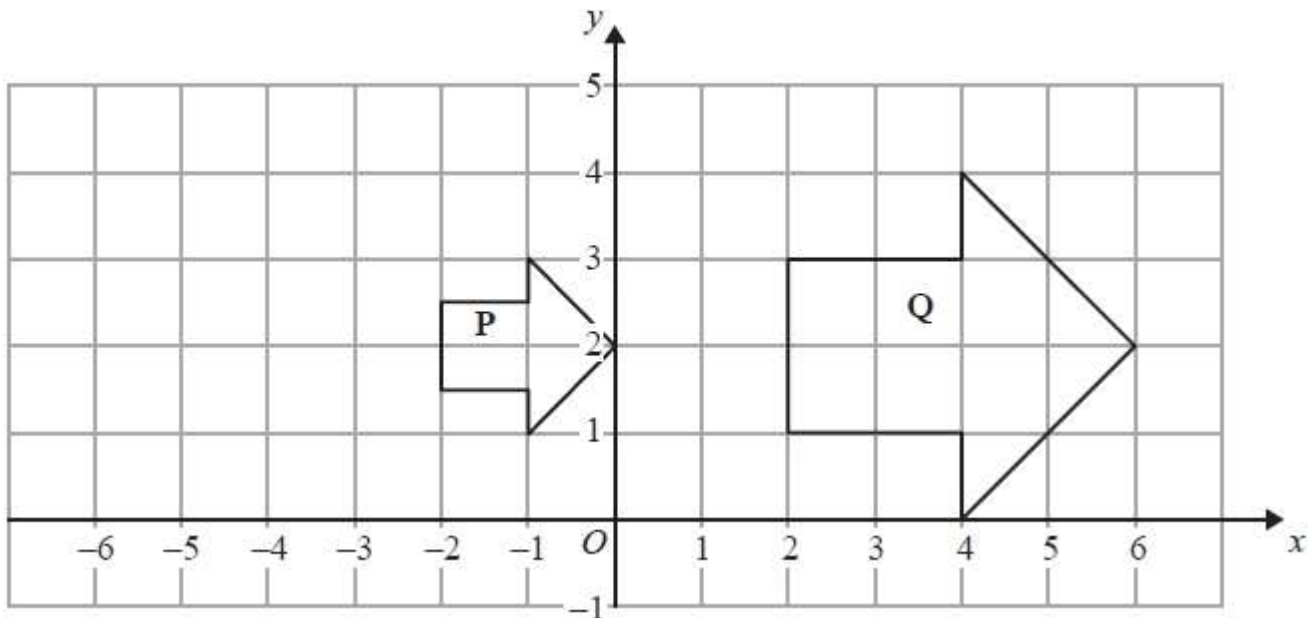
(2)  
(Total for question = 7 marks)

**Q3. NON-CALCULATOR**



(a) Reflect shape **A** in the line  $x = -1$

(2)



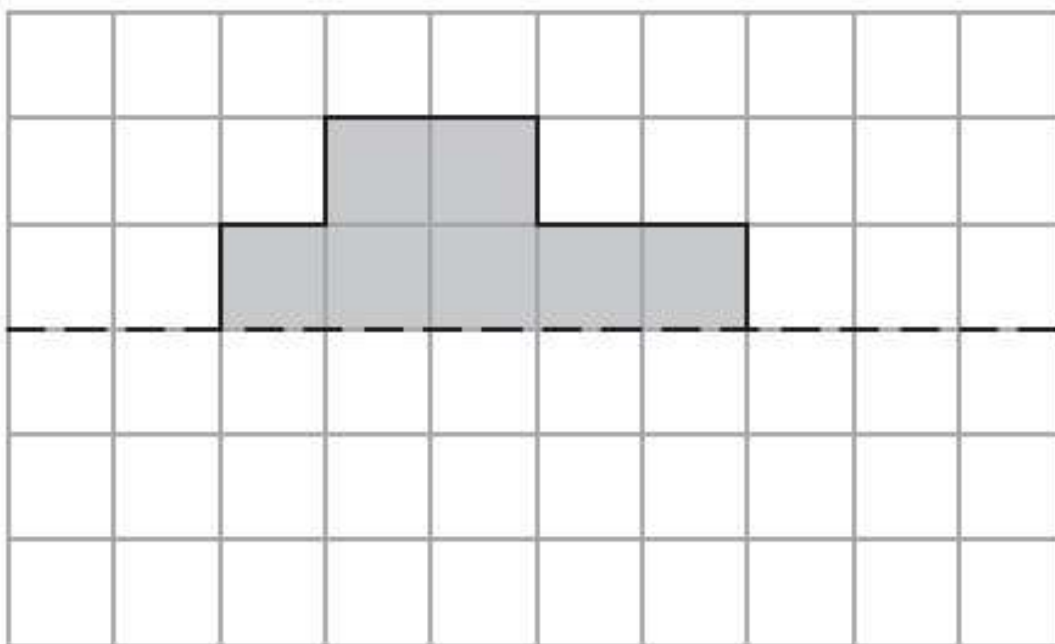
(b) Describe fully the single transformation that maps shape P onto shape Q.

.....  
 .....

(3)  
 (Total for question = 5 marks)

**Q4. NON-CALCULATOR**

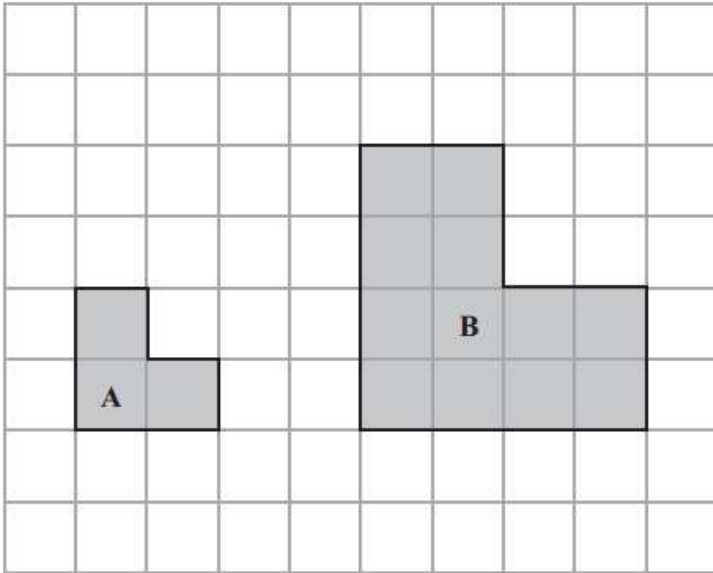
(a) A shaded shape is shown on the grid.



Reflect the shaded shape in the mirror line.

(1)

(b)

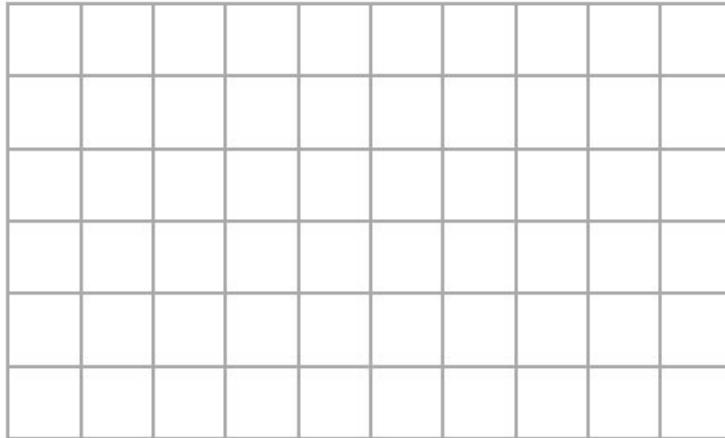


Shape **B** is an enlargement of shape **A**.  
Write down the scale factor of the enlargement.

.....

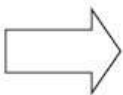
(1)

(c) On the grid, draw two parallel lines.

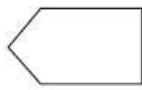


(1)

(d)



**A**

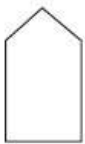


**B**

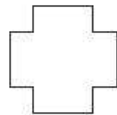


**C**

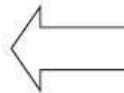
Here are some shapes.



**D**



**E**

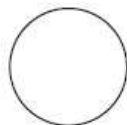


**F**

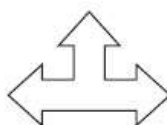
Write down the letters of two shapes that are congruent.



**G**



**H**



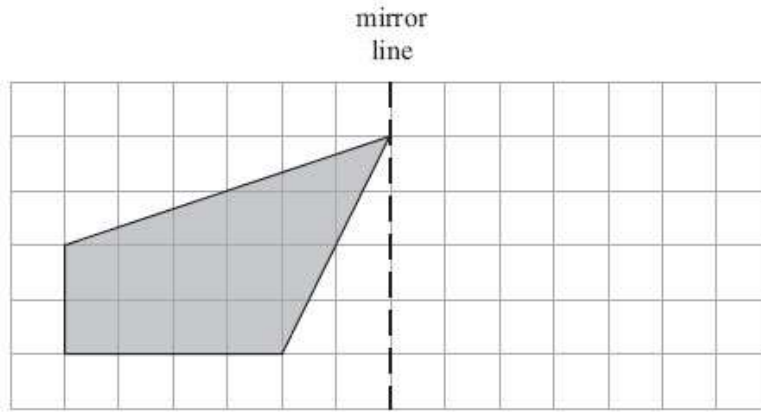
**I**

.....

(1)

(Total for Question is 4 marks)

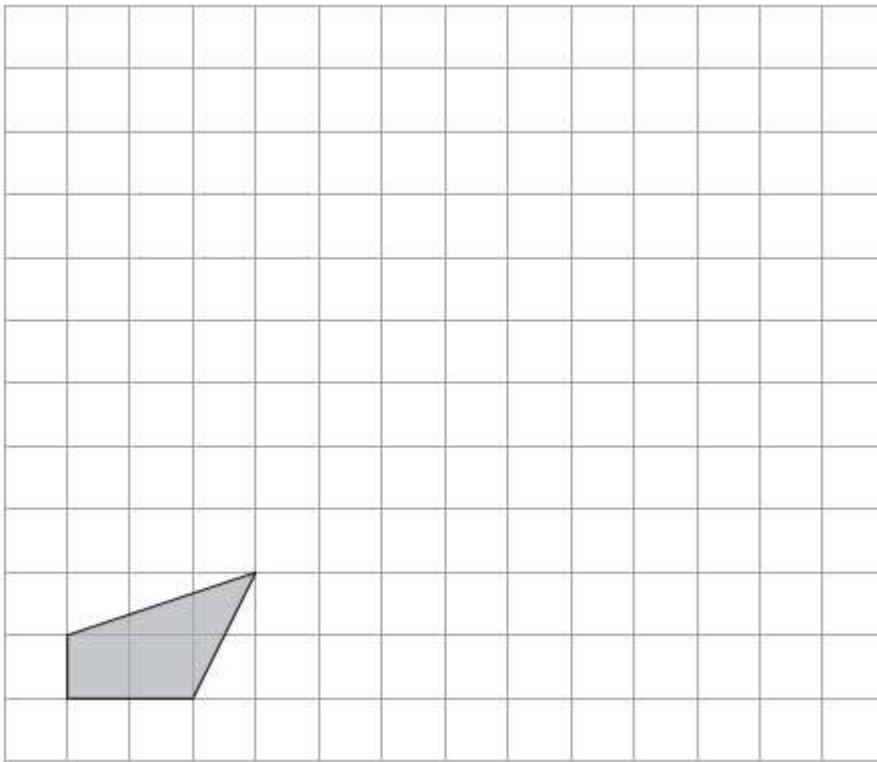
**Q5. NON-CALCULATOR**



(a) Reflect the shaded shape in the mirror line.

(2)

(b)



On the grid, enlarge the shaded shape using a scale factor of 3

(2)

Here is a different shape.

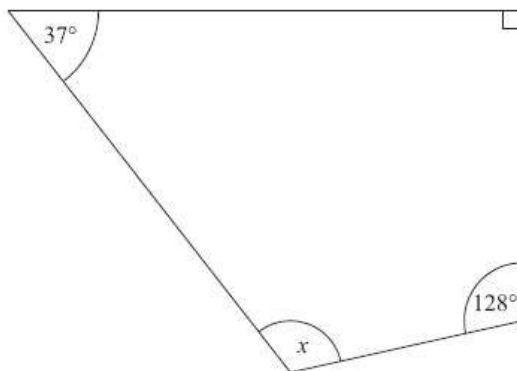


Diagram NOT accurately drawn

(c) Work out the size of angle  $x$ .

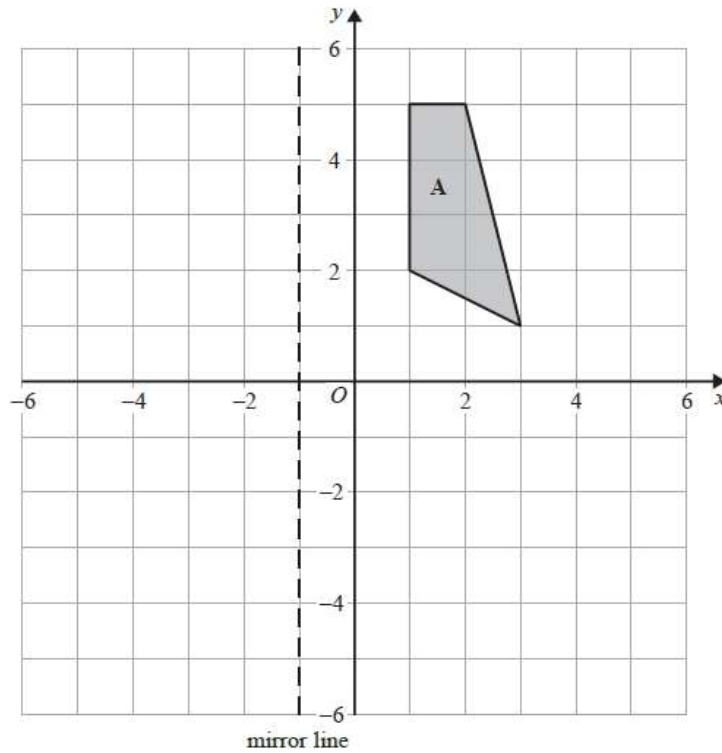
.....

(2)

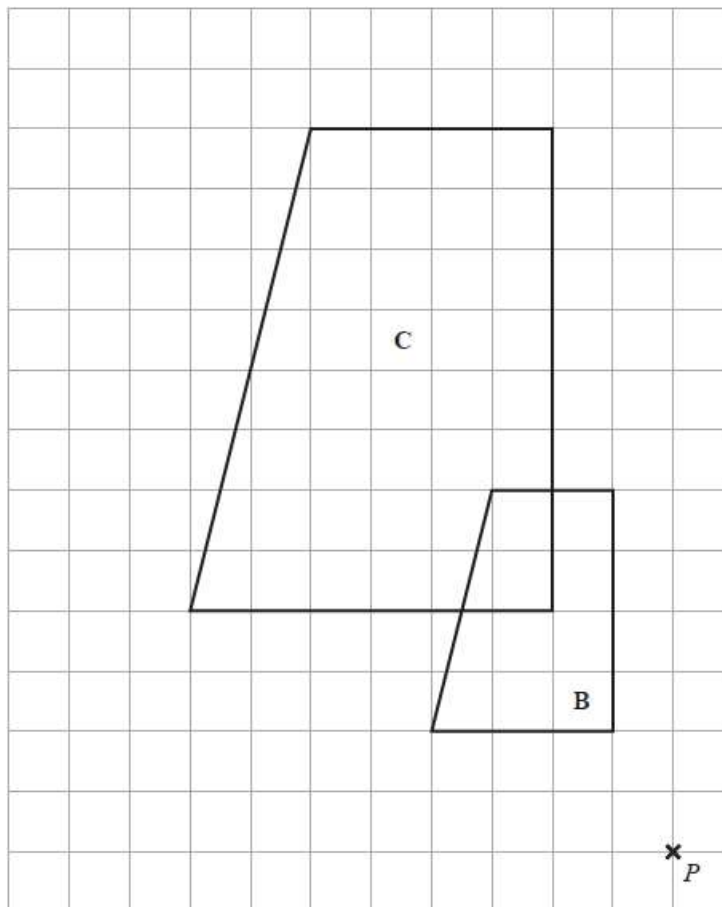
(Total for Question is 6 marks)

**Q6. NON-CALCULATOR**

(a) On the grid, reflect shape **A** in the mirror line.



(b)



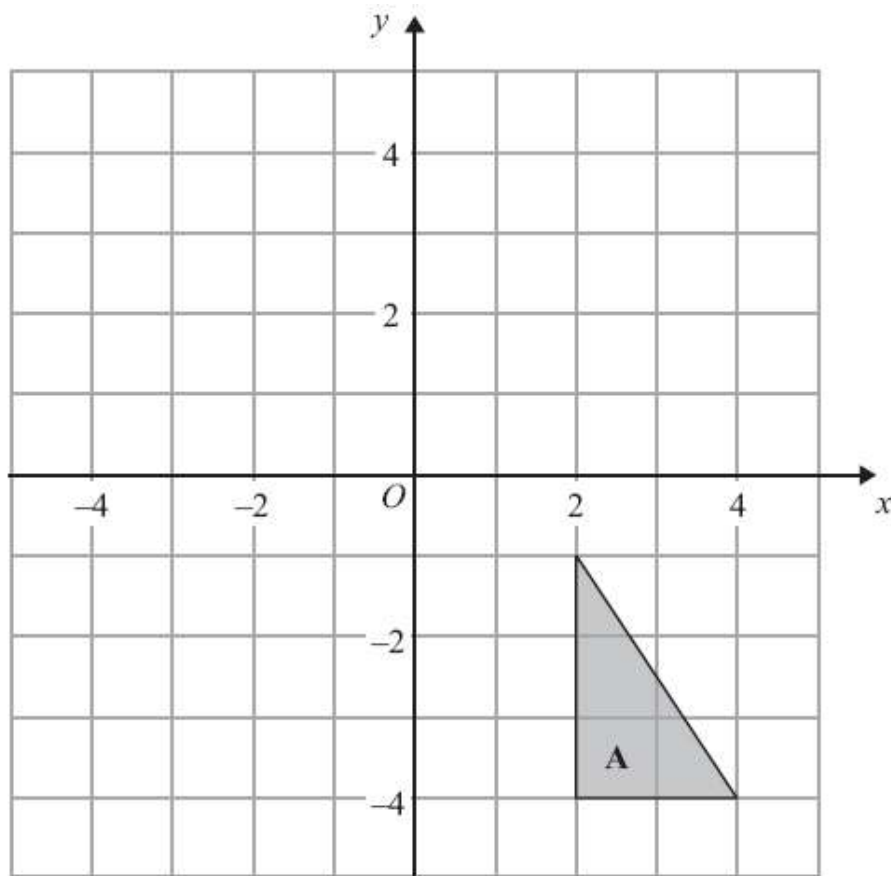
Describe fully the single transformation that maps trapezium **B** onto trapezium **C**.

.....

(2)

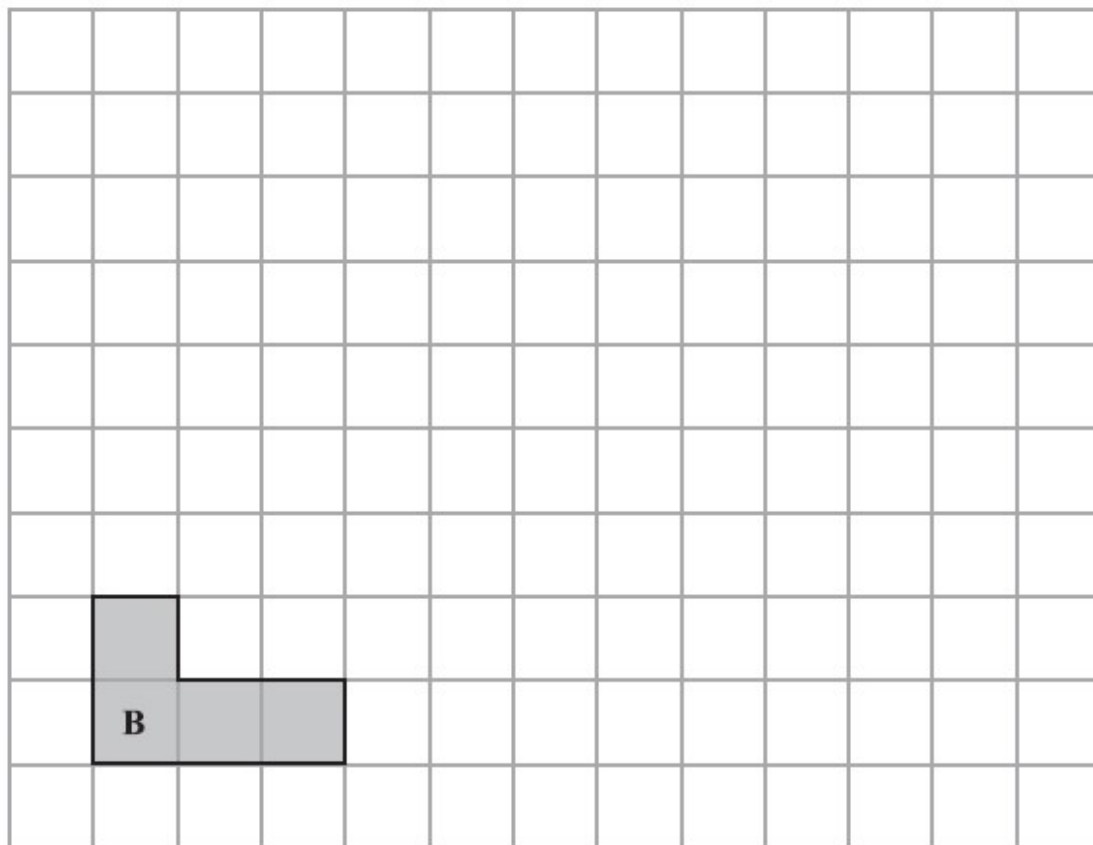
(2)  
(Total for question = 4 marks)

**Q7. NON-CALCULATOR**



(a) Reflect triangle **A** in the x-axis.

(2)



(b) Draw an enlargement, scale factor 3, of shape **B**.

(2)

(Total for Question is 4 marks)