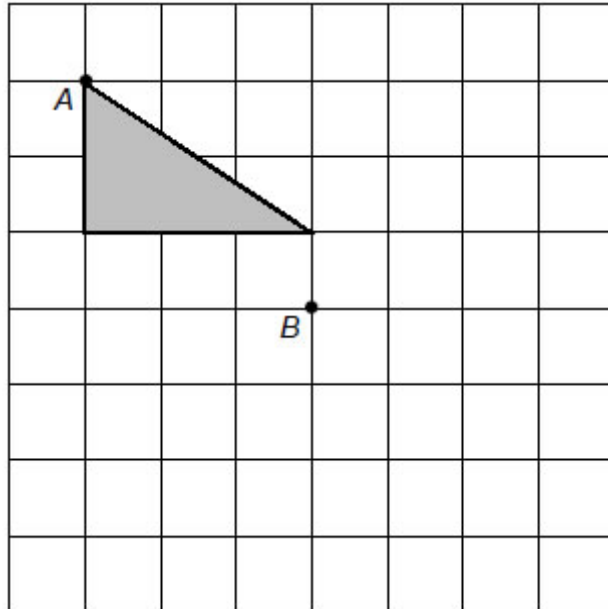


Non-Calculator

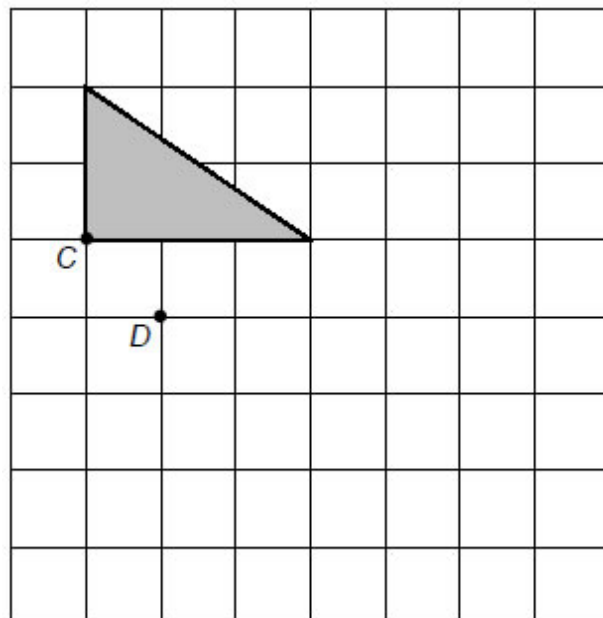
Q1.

- (a) Translate the triangle so that point *A* moves to point *B*.



(1)

- (b) Rotate the triangle **90° clockwise** so that point *C* moves to point *D*.

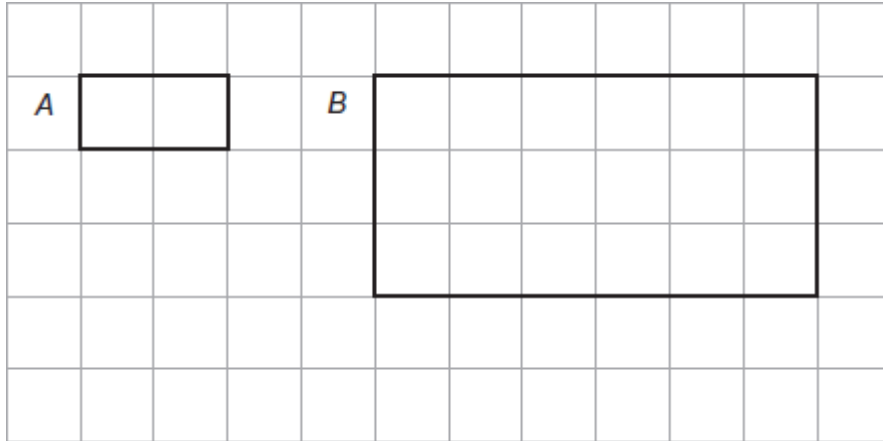


(2)

(Total 3 marks)

Q2.

Rectangles *A* and *B* are drawn on a centimetre grid.



- (a) *B* is an enlargement of *A*.

What is the scale factor of the enlargement?

Answer _____

(1)

- (b) How many times larger is the area of *B* than the area of *A*?

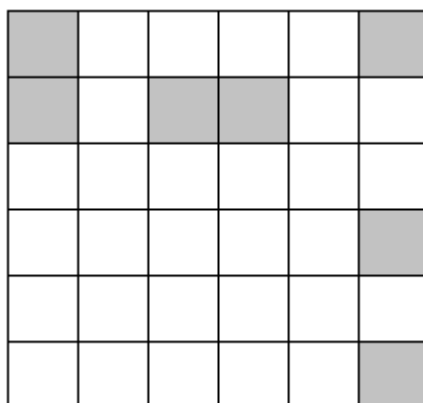
(2)

(Total 3 marks)

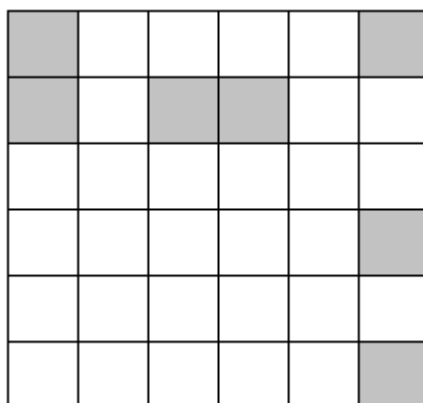
Q3.

Shade 3 squares so this pattern has exactly **one** line of symmetry.

Use this grid for practice.



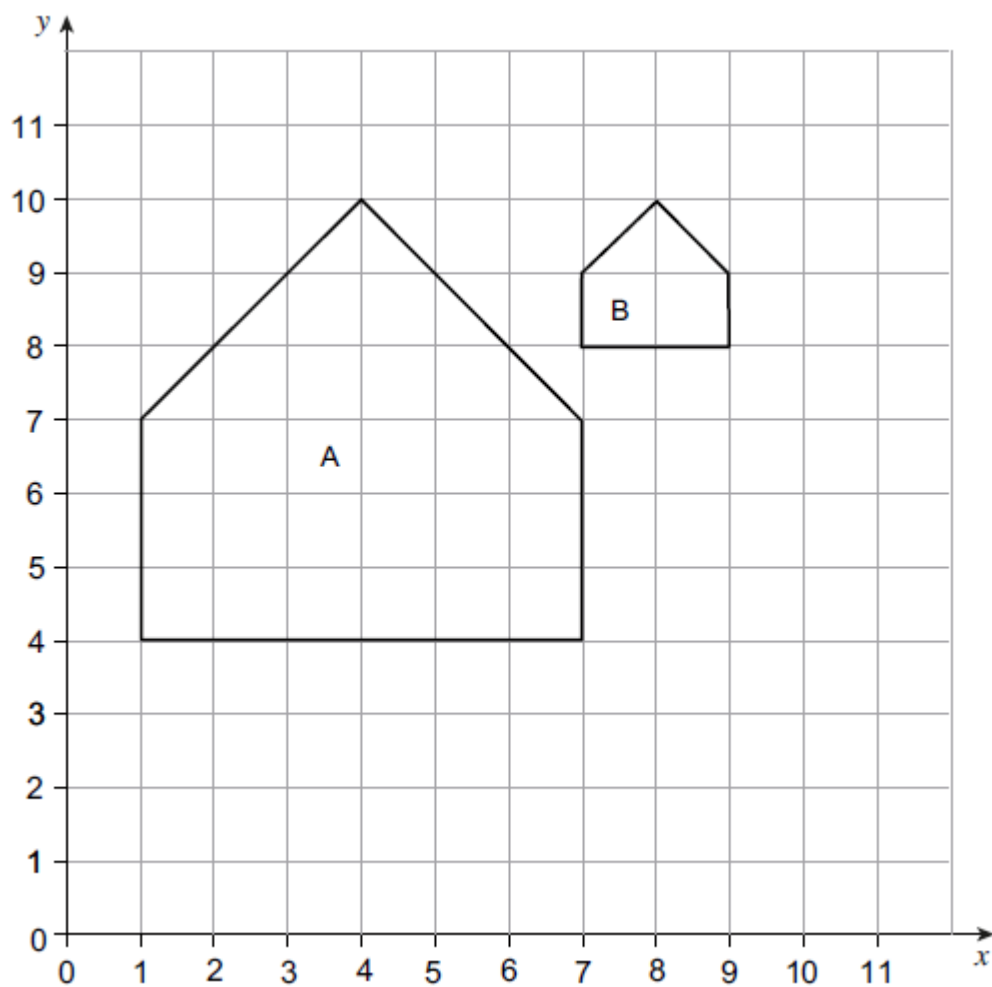
Use this grid for your answer.



(Total 2 marks)

Q4.

Describe fully the **single** transformation that maps shape A to shape B.

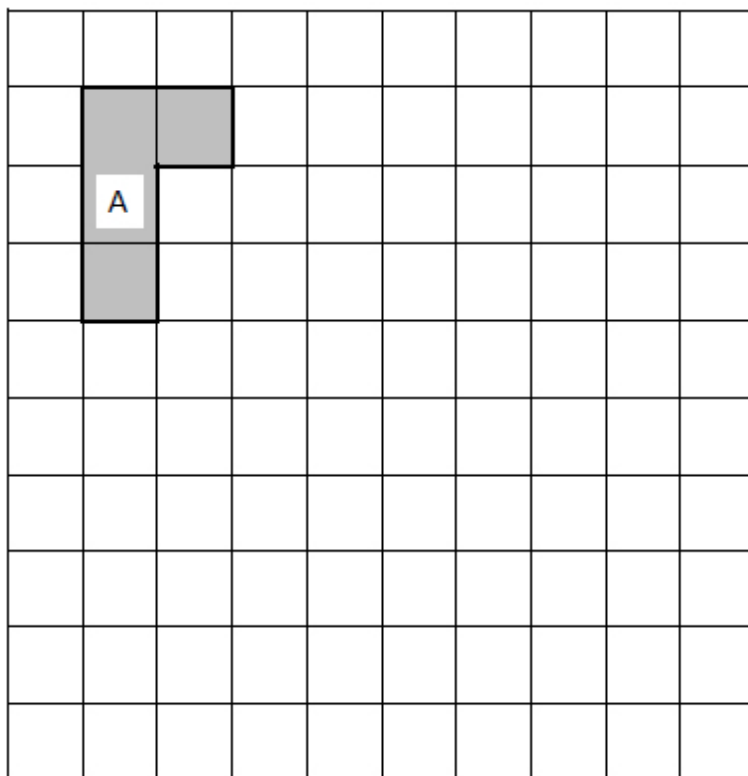


(Total 3 marks)

Calculator

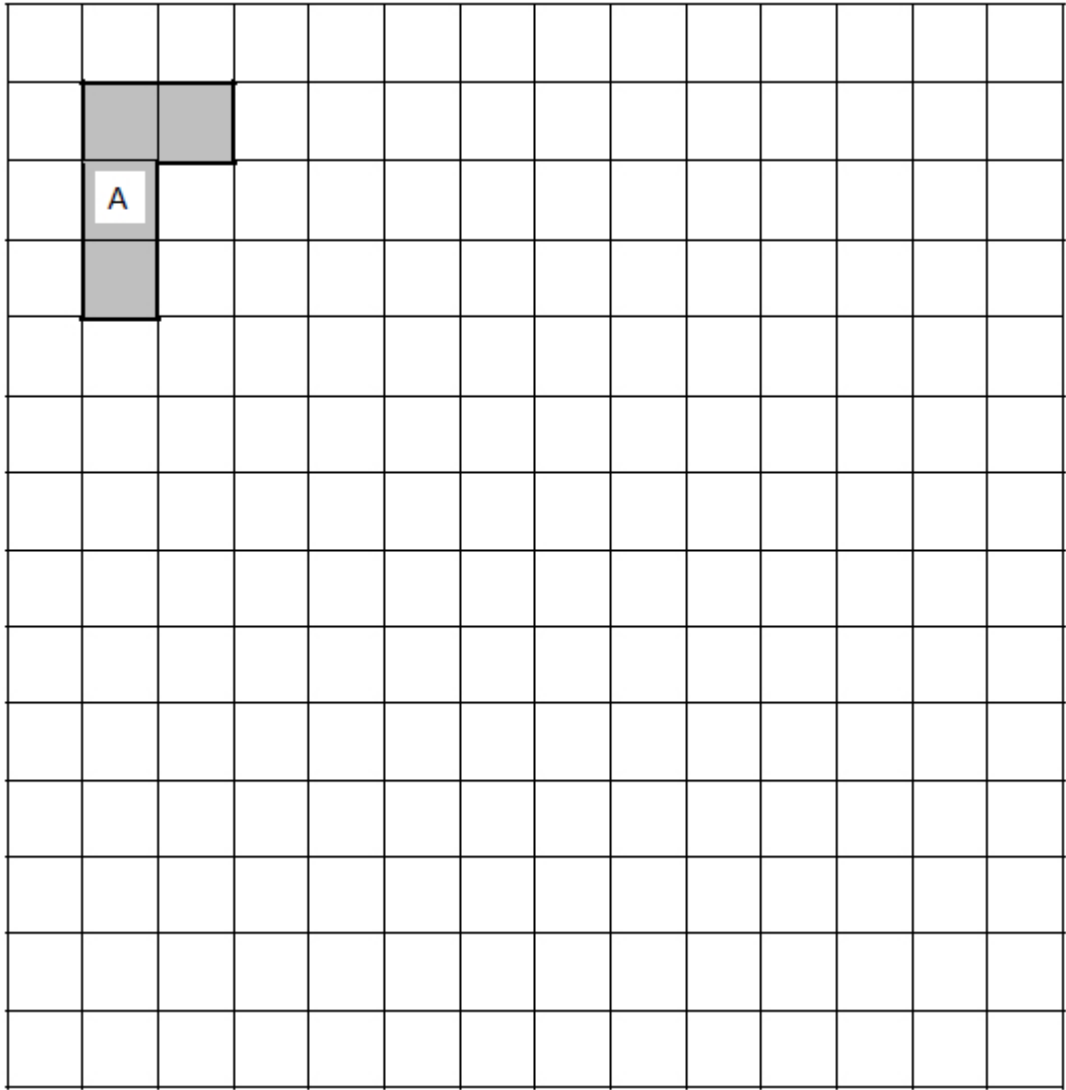
Q5.

- (a) On the grid draw a shape that is a reflection of shape A. Show your mirror line.



(1)

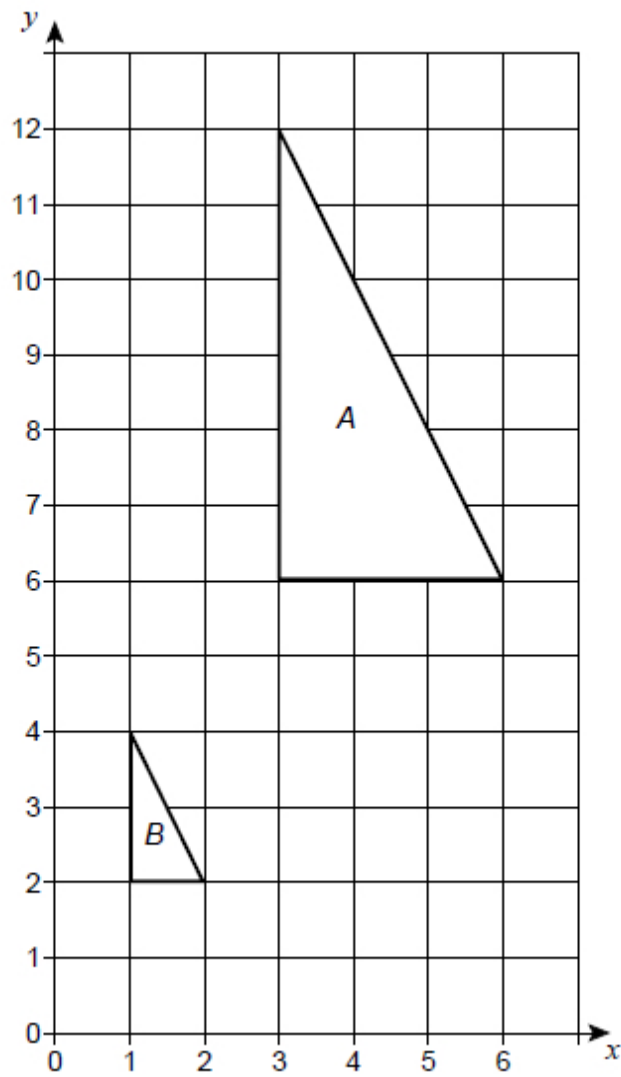
- (b) On this grid draw a shape that is an enlargement of shape A.



(1)
(Total 2 marks)

Q6.

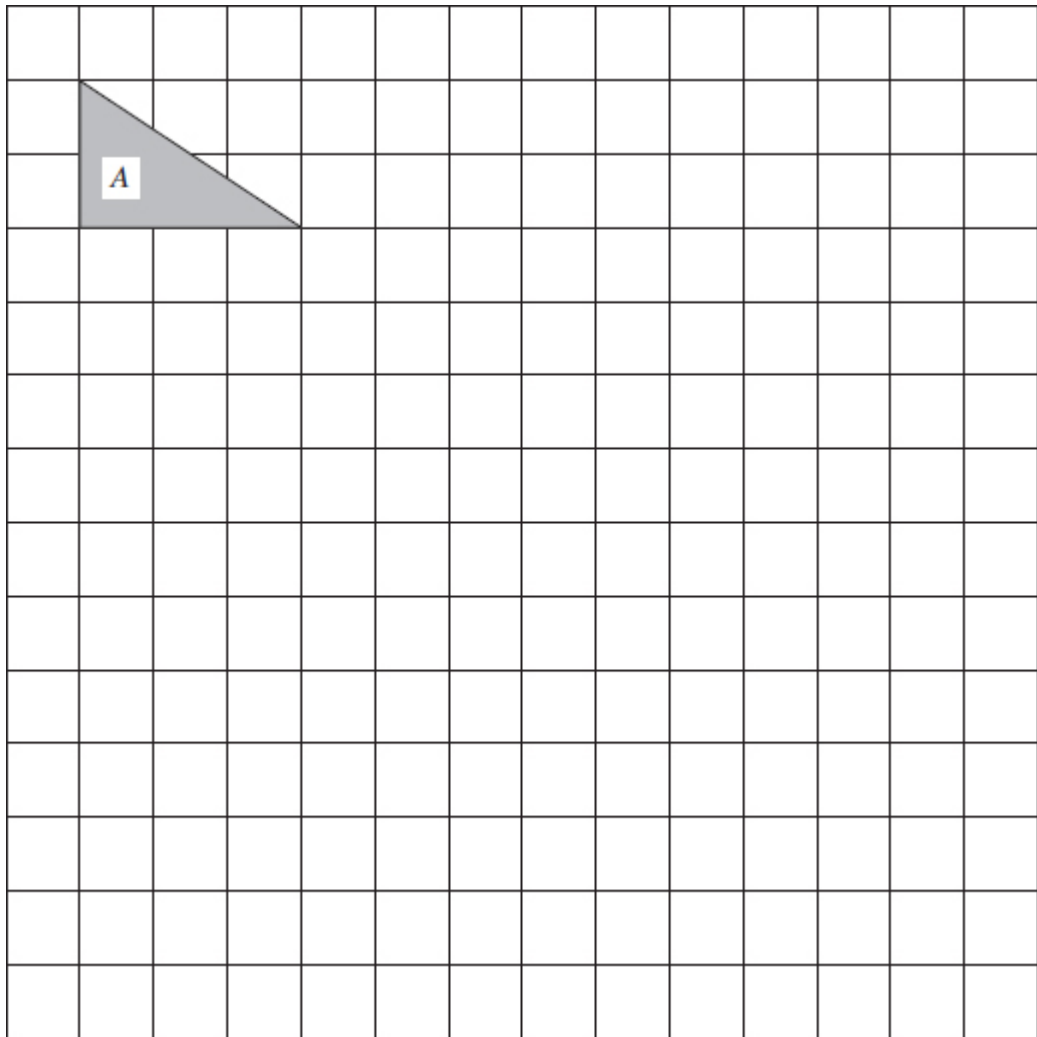
Describe fully the **single** transformation that maps triangle *A* to triangle *B*.



(Total 3 marks)

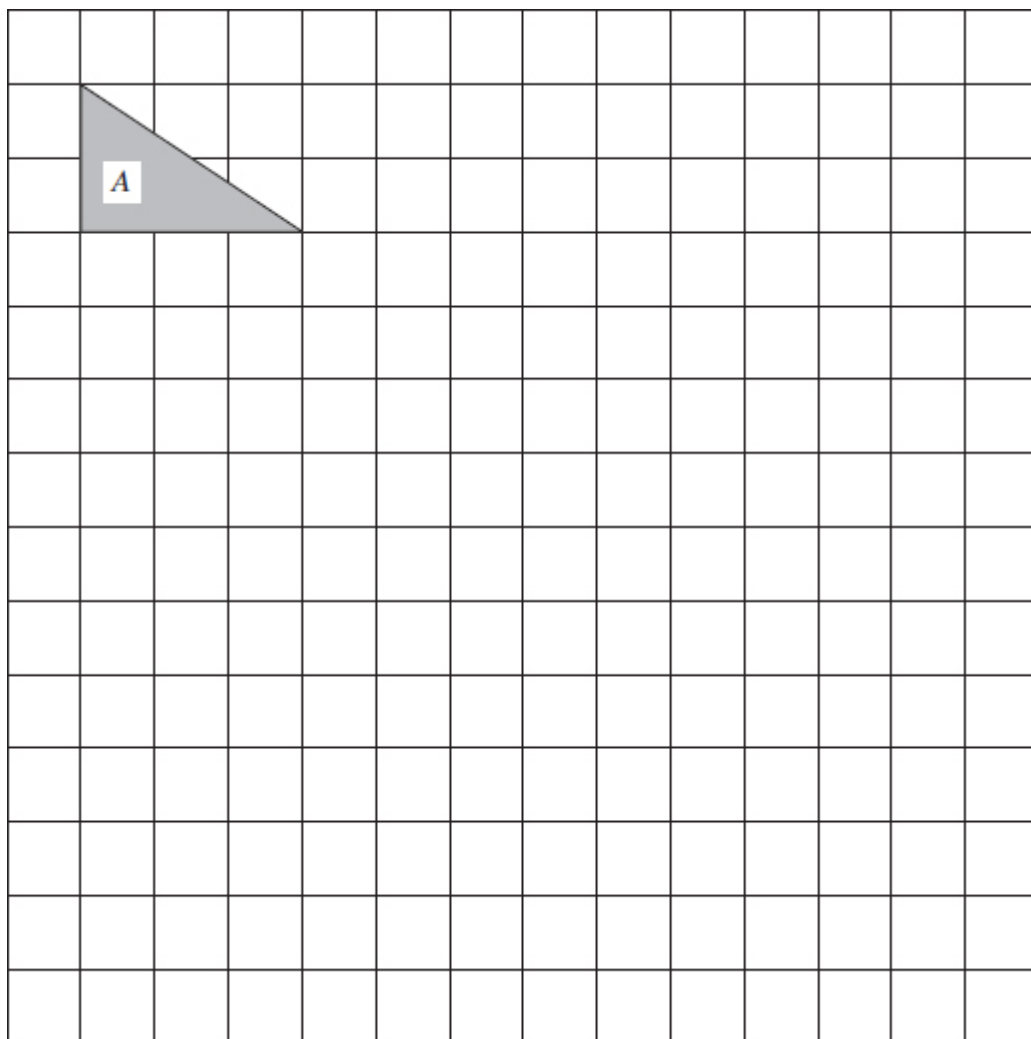
Q7.

- (a) On the grid, draw a 90° clockwise rotation of shape *A*.
Label it *B*.



(2)

- (b) On this grid, draw an enlargement of shape *A* by scale factor 3. Label it *C*.



(2)

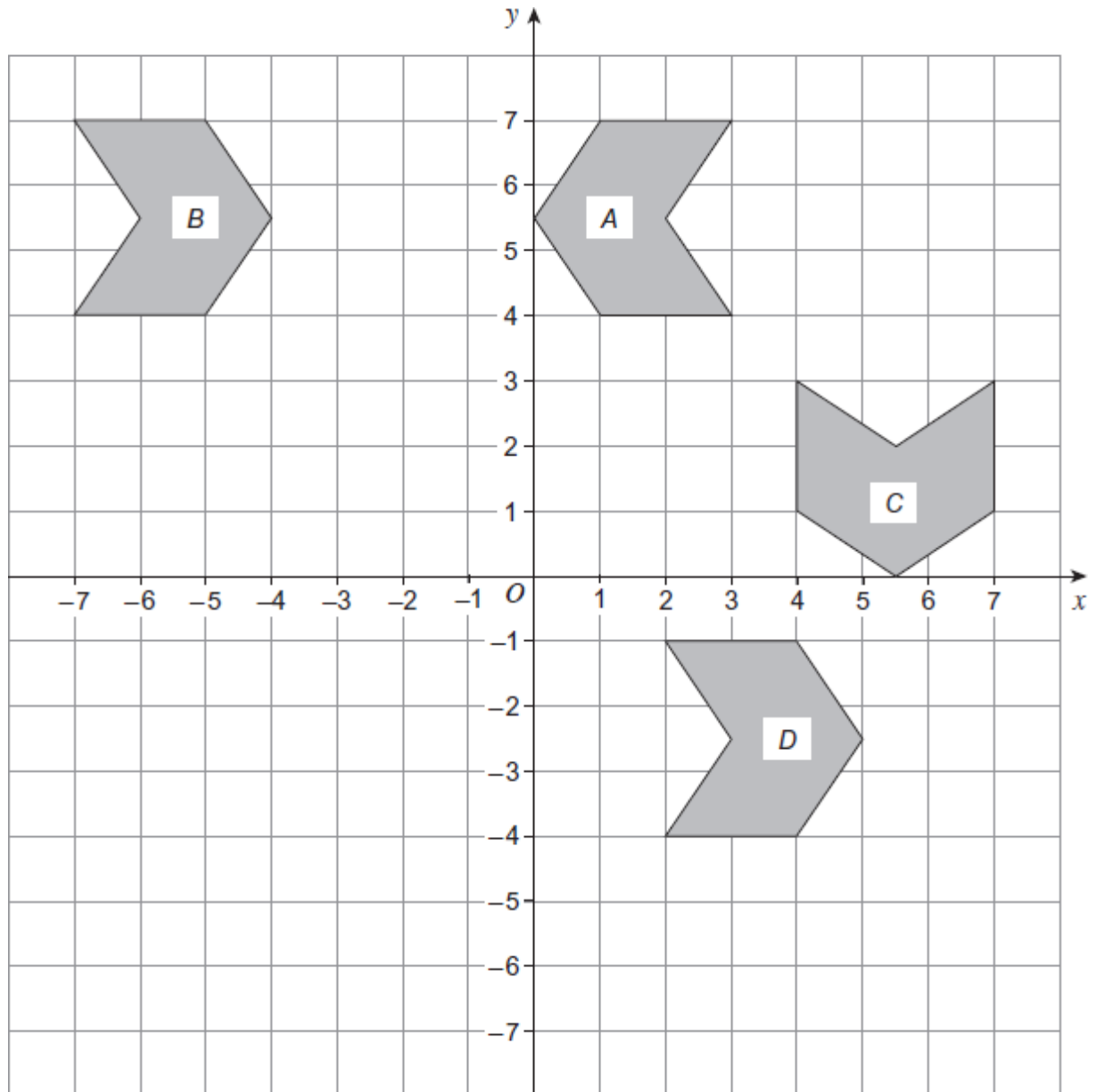
- (c) Work out the area of shape *C*.

Answer _____ cm²

(2)

(Total 6 marks)

Q8.

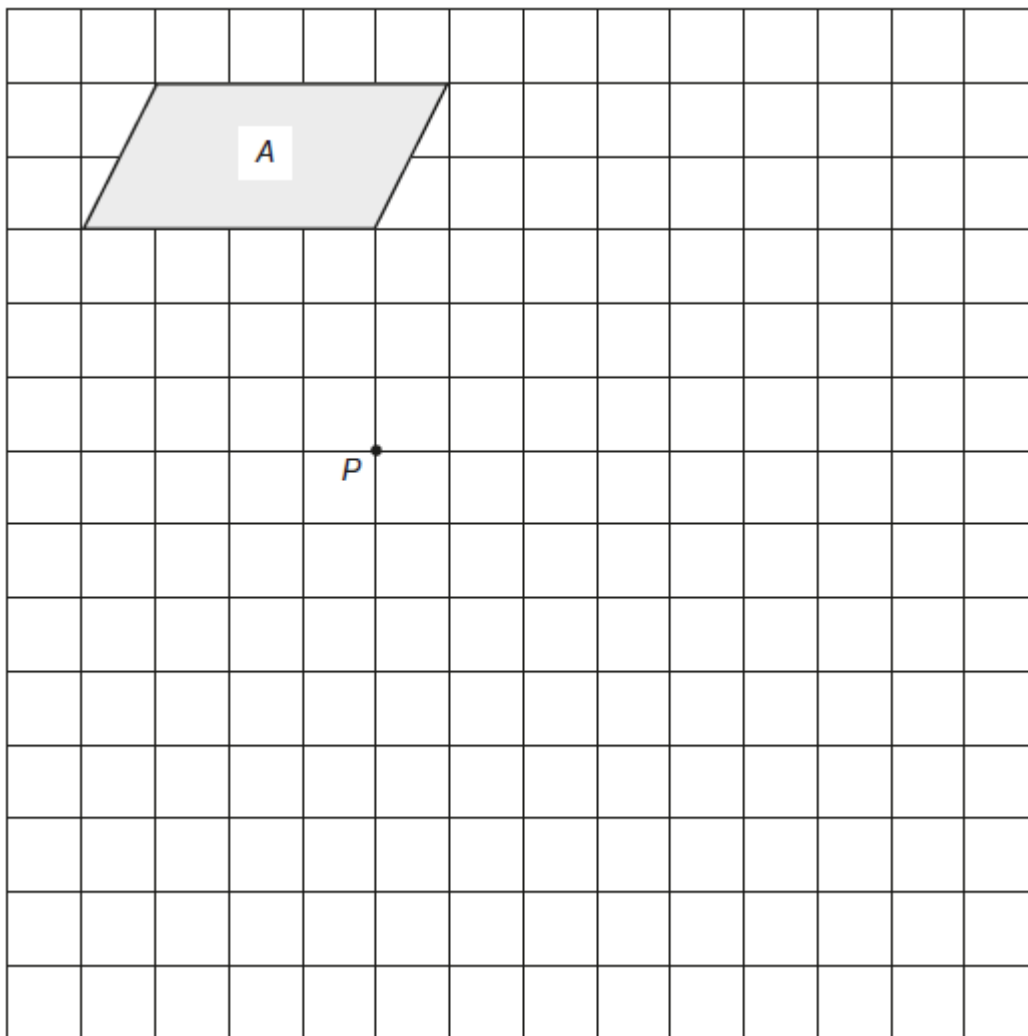


- (a) On the grid draw the mirror line that reflects shape *A* to shape *B*. (1)
- (b) On the grid draw the mirror line that reflects shape *A* to shape *C*. (1)
- (c) Describe fully the single transformation that takes shape *B* to shape *D*.

(2)
(Total 4 marks)

Q9.

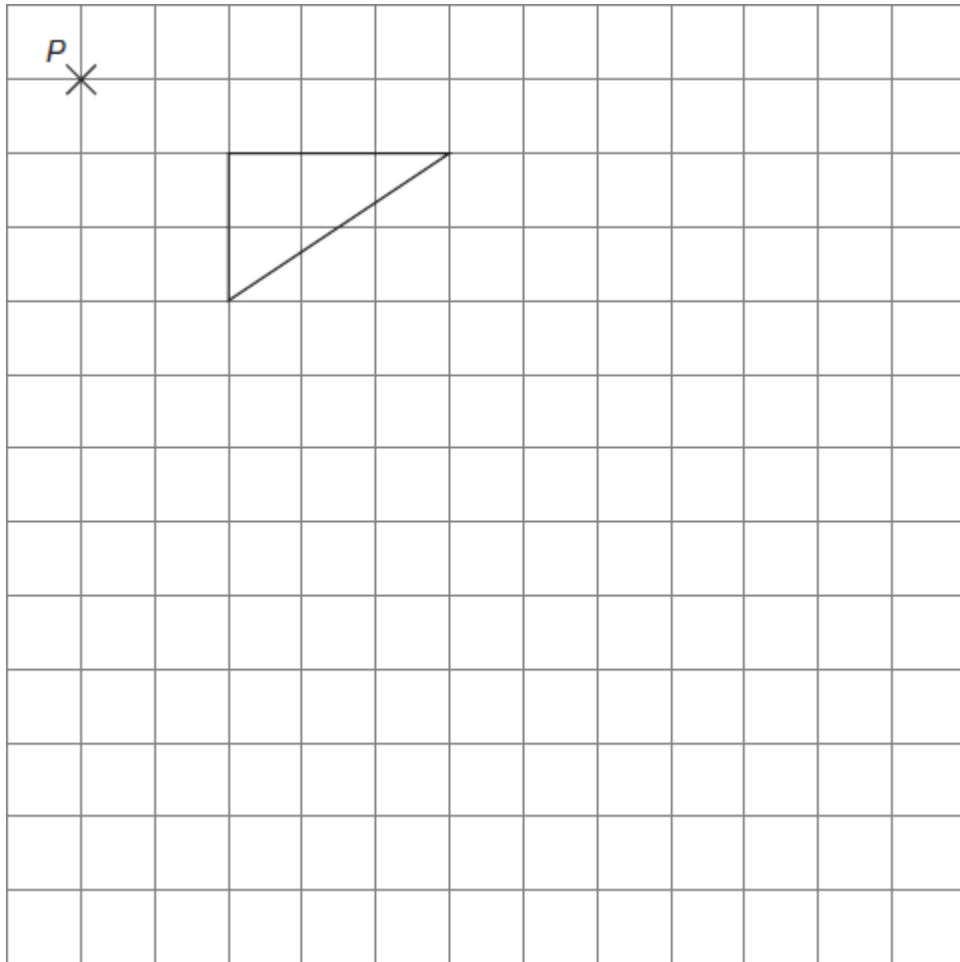
On this grid, rotate shape *A* by 90° clockwise about point *P*.



(Total 3 marks)

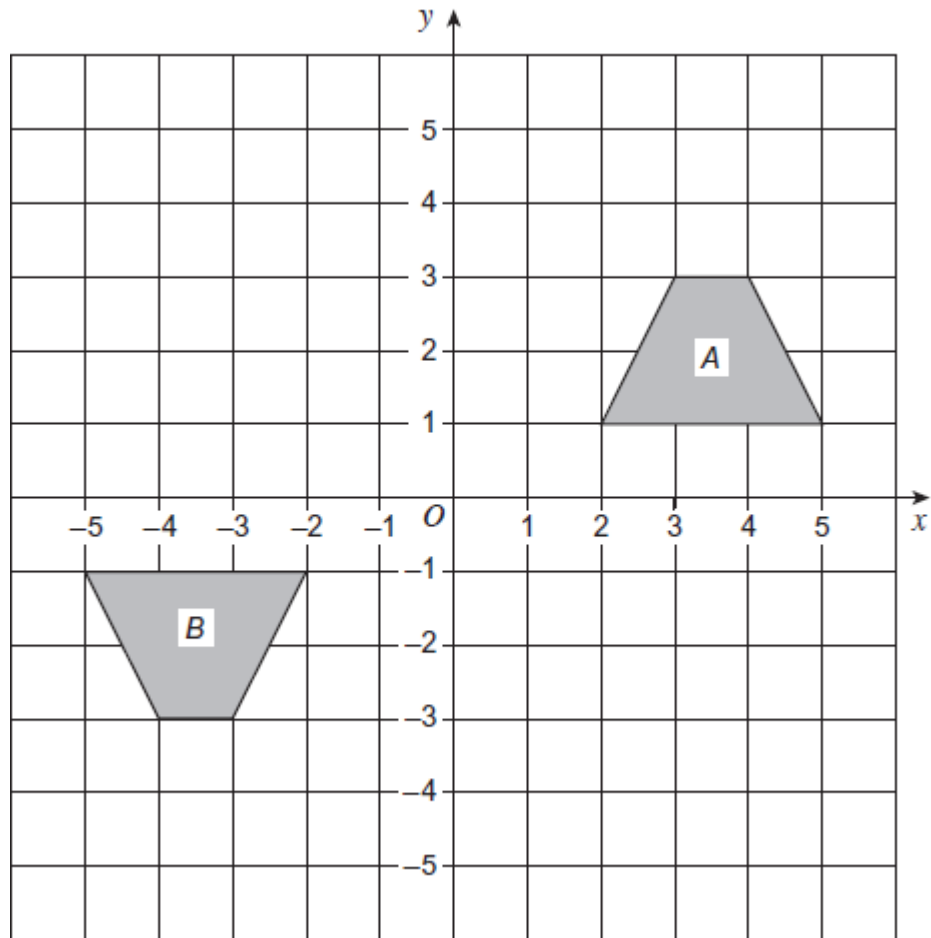
Q10.

- (a) Enlarge this shape by scale factor 2 with centre of enlargement point *P*.



(3)

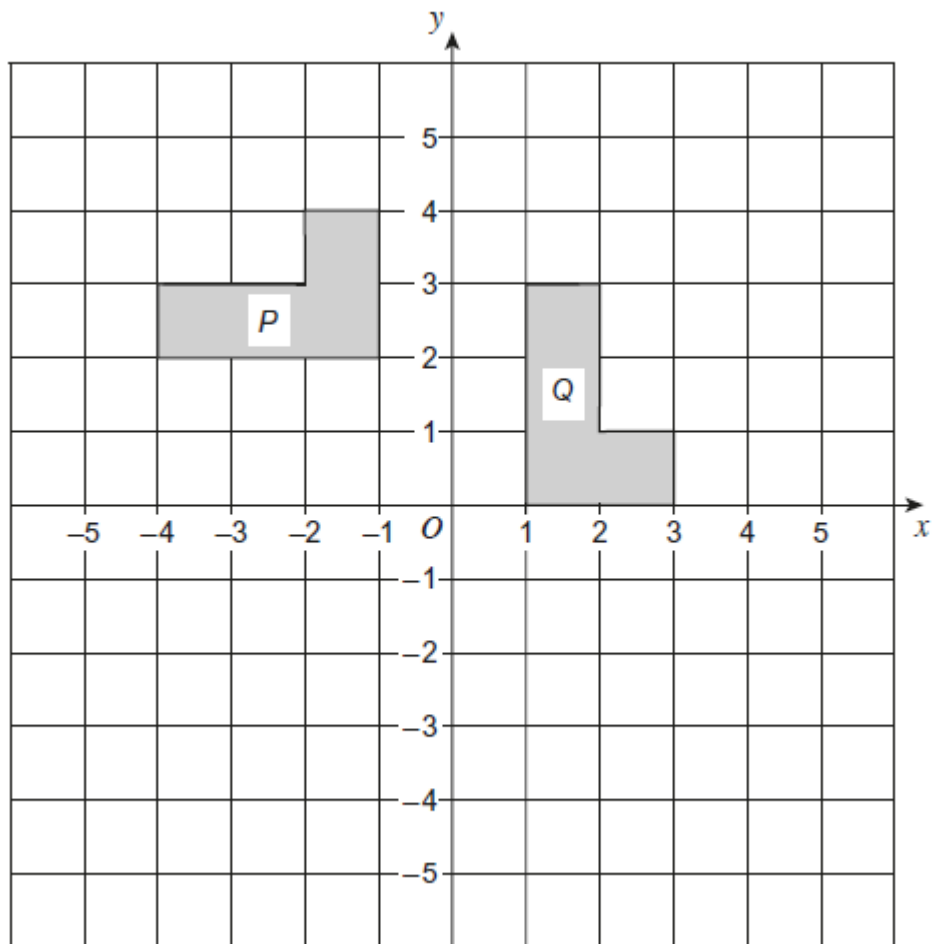
(b) Describe fully the **single** transformation that maps shape *A* to shape *B*.



(3)
(Total 6 marks)

Q11.

(a) Describe fully the **single** transformation that maps shape *P* to shape *Q*.



(3)

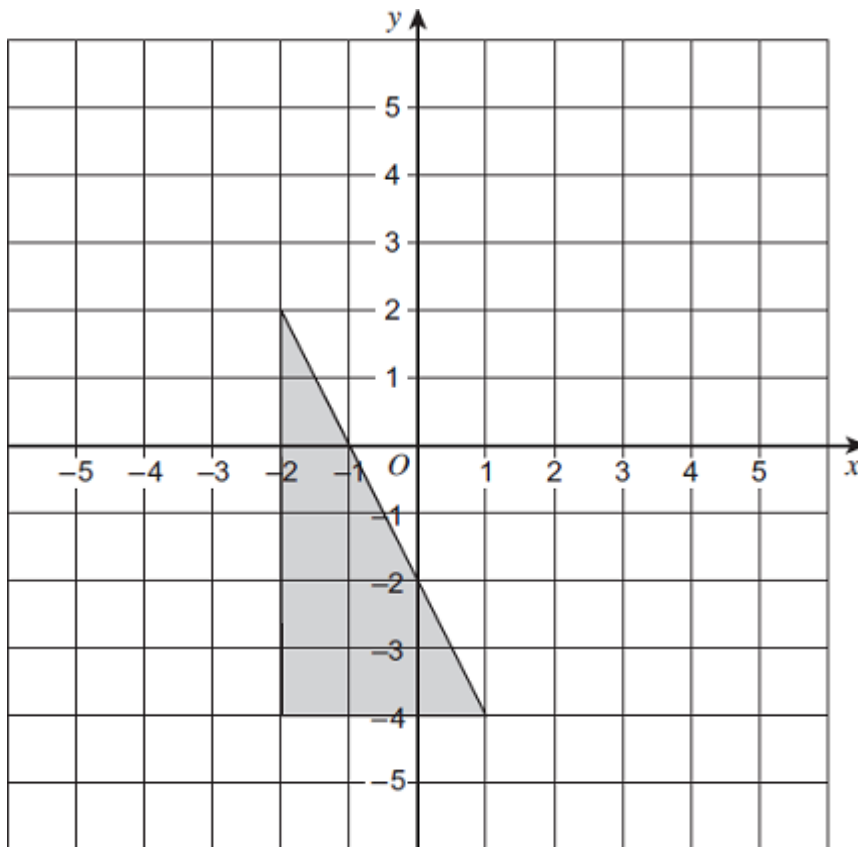
(b) On the grid, translate shape *Q* by vector $\begin{pmatrix} 1 \\ -5 \end{pmatrix}$

(2)

(Total 5 marks)

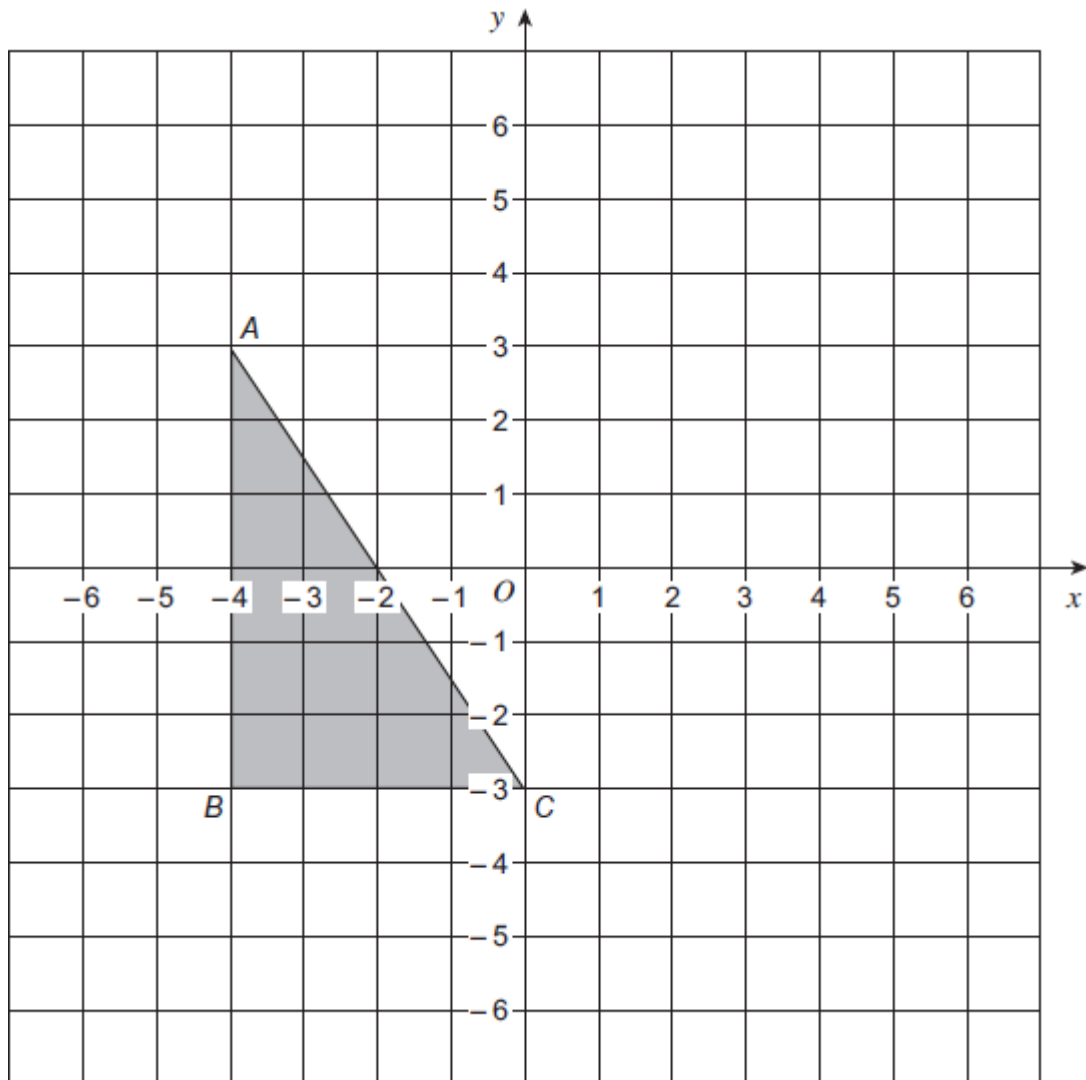
Q12.

Enlarge the triangle by scale factor $\frac{1}{3}$ with centre $(-5, -4)$.



(Total 2 marks)

Q13.



Enlarge triangle ABC by scale factor $\frac{1}{2}$, centre $(4, 1)$.

(Total 2 marks)