



Enlargements

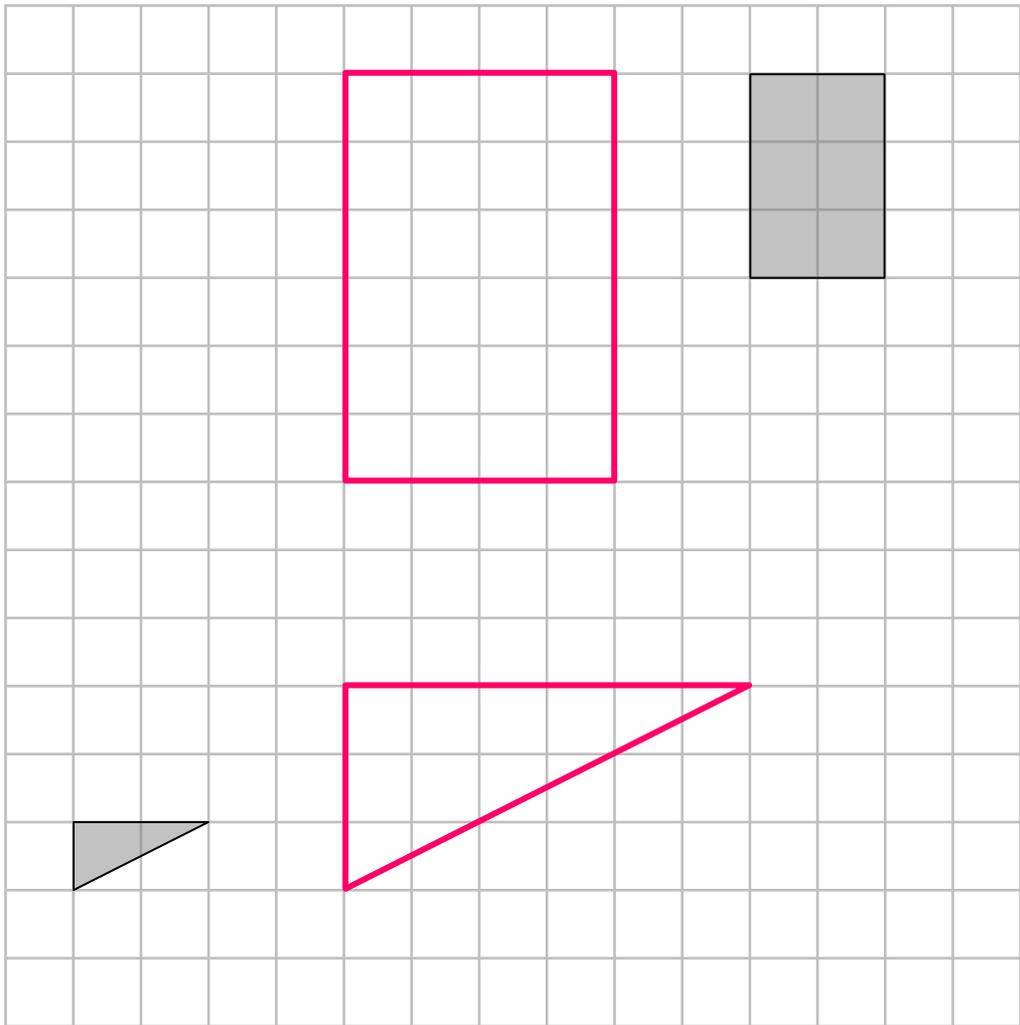


REVISE THIS TOPIC



1 (a) On the grid, draw an enlargement of the rectangle with scale factor 2. (2)

(b) On the grid, draw an enlargement of the triangle with scale factor 3. (2)

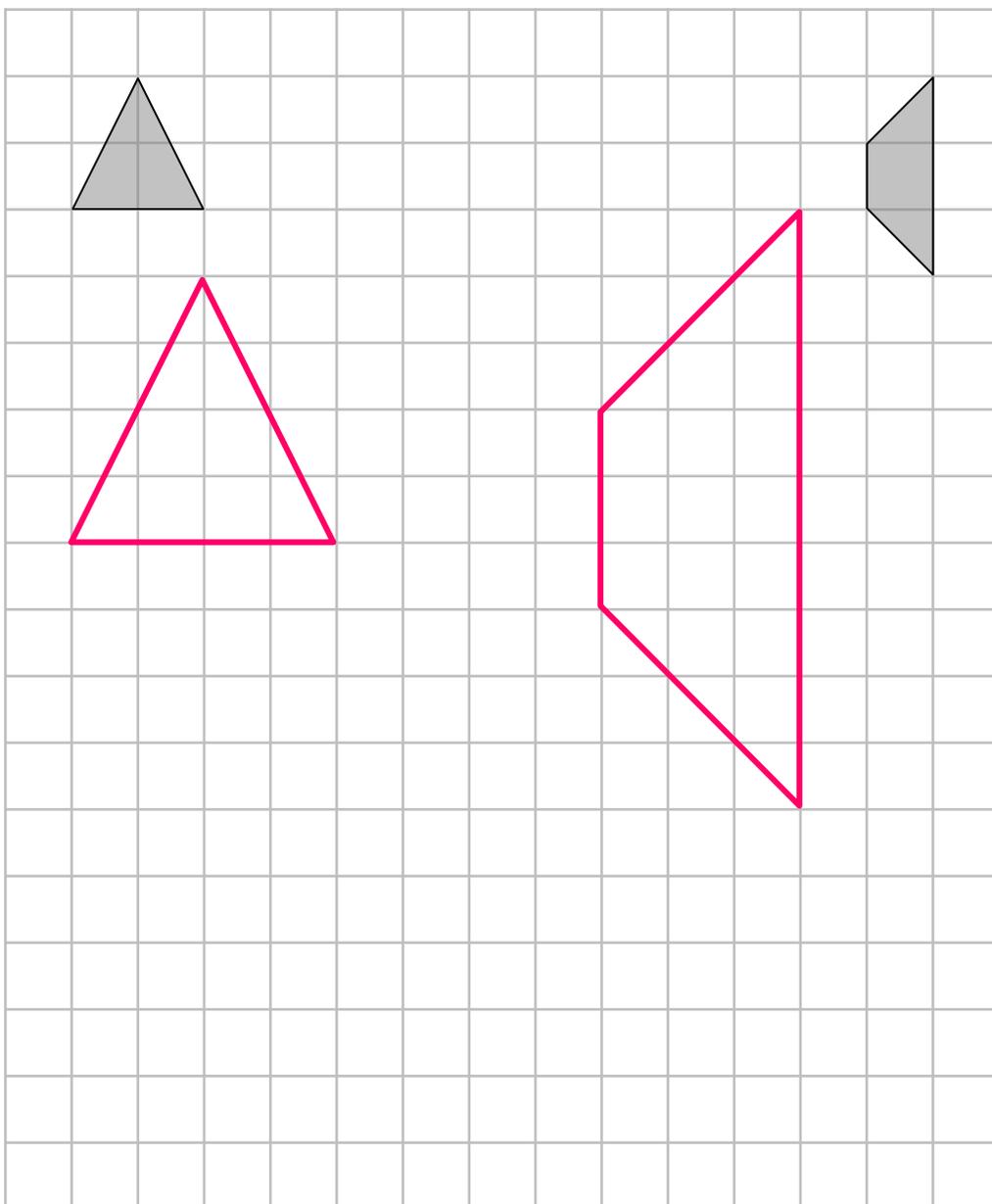


(Total for Question 1 is 4 marks)



2 (a) On the grid, draw an enlargement of the triangle with scale factor 2. (2)

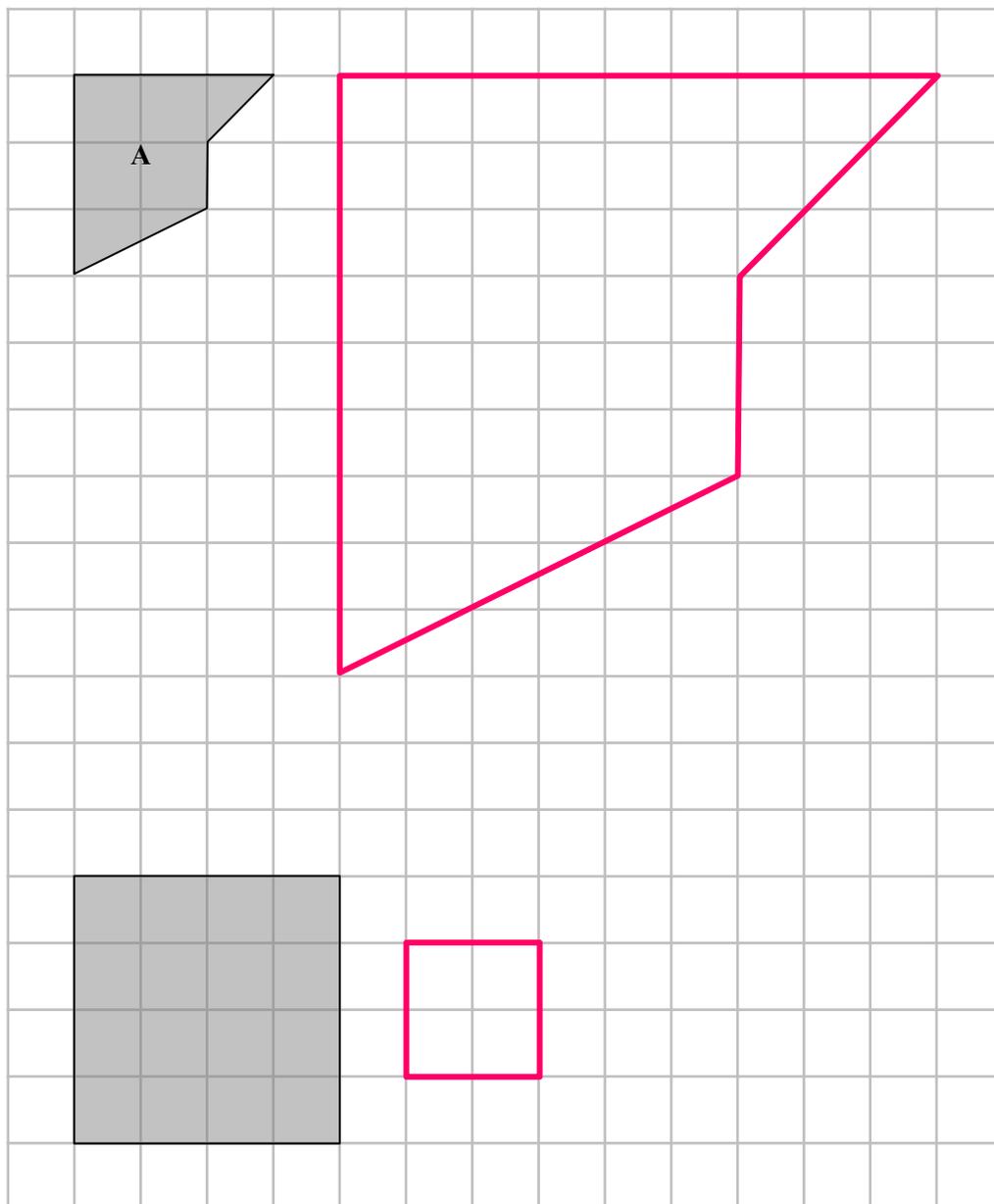
(b) On the grid, draw an enlargement of the trapezium with scale factor 3. (2)



(Total for Question 2 is 4 marks)

3 (a) On the grid, draw an enlargement of Shape A with scale factor 3 (3)

(b) On the grid, draw an enlargement of the square with scale factor $\frac{1}{2}$ (1)

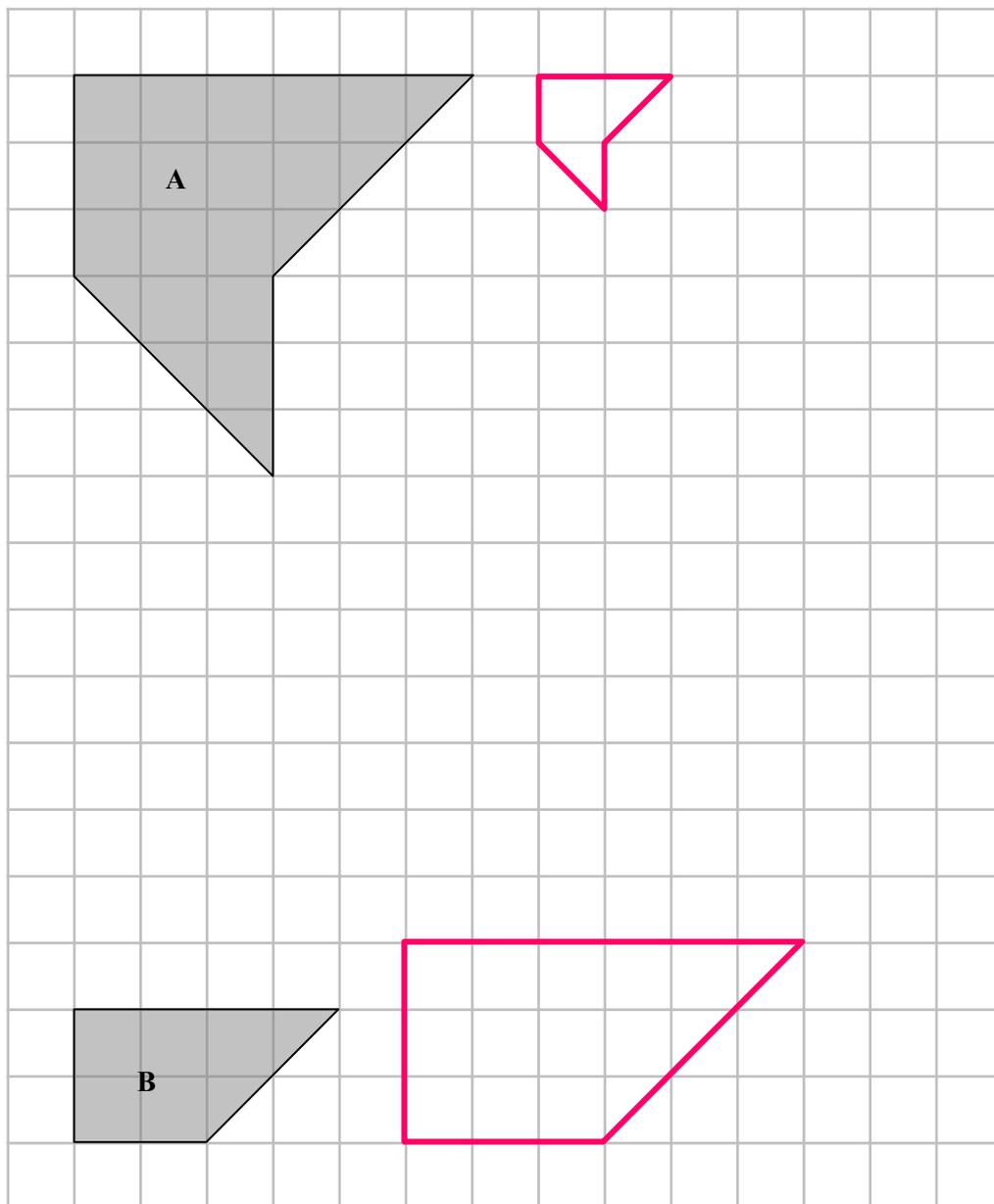


(Total for Question 3 is 4 marks)



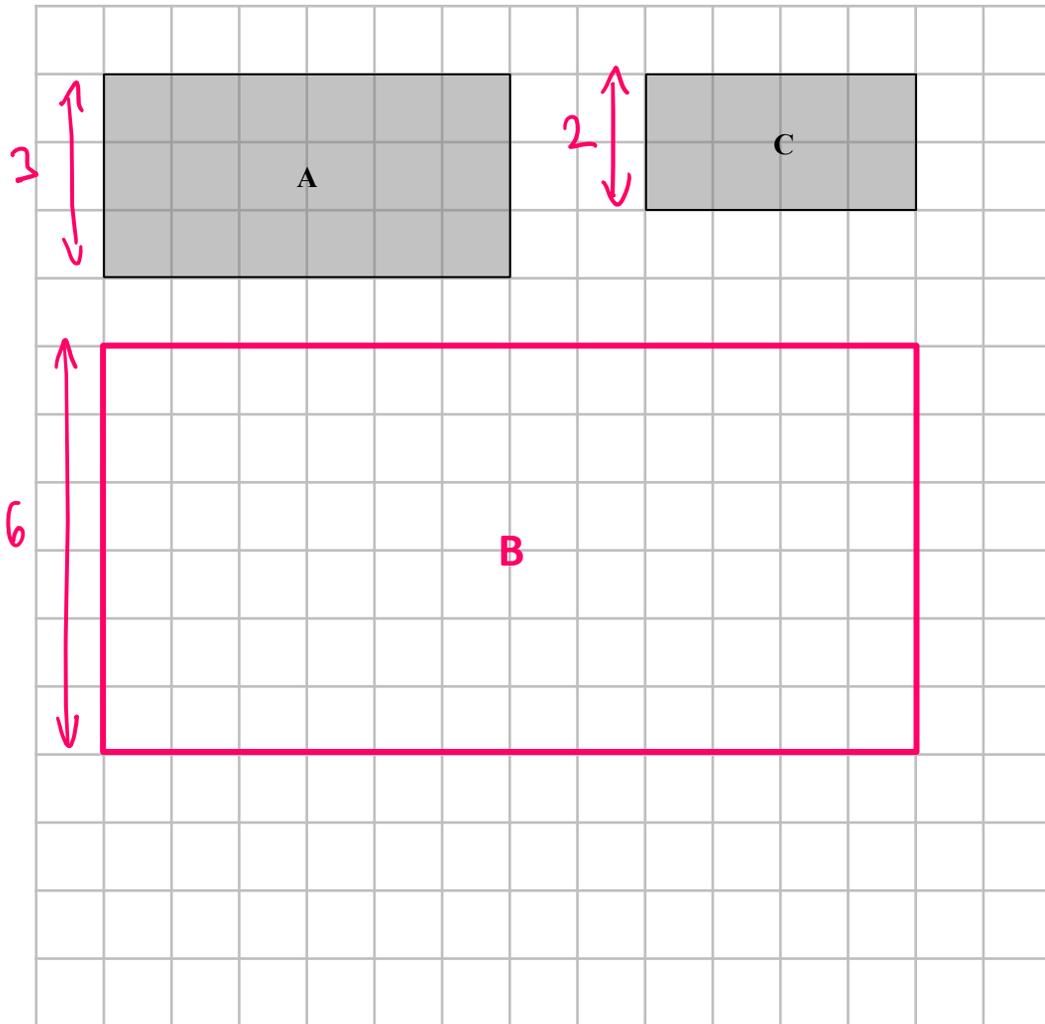
4 (a) On the grid, draw an enlargement of Shape **A** with scale factor $\frac{1}{3}$ (2)

(b) On the grid, draw an enlargement of Shape **B** with scale factor $1\frac{1}{2}$ (2)



(Total for Question 4 is 4 marks)

- 5 Shape **A** is enlarged by scale factor 2 to give shape **B**.
 Shape **B** is enlarged to give shape **C**.



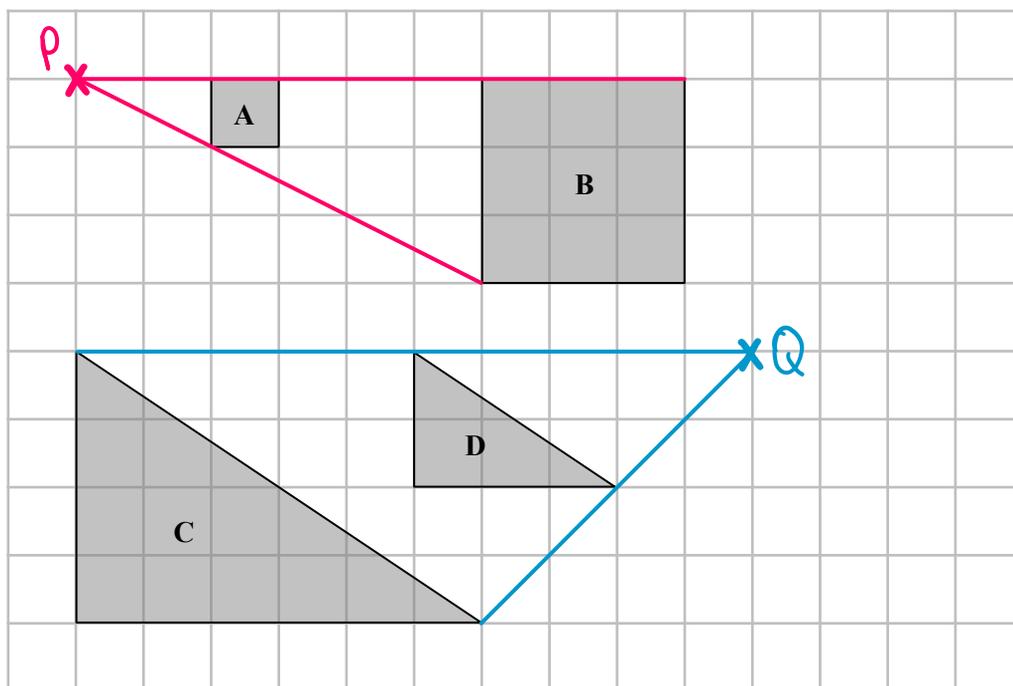
Work out the scale factor of enlargement from shape **B** to shape **C**.

$$\frac{1}{3}$$

(Total for Question 5 is 2 marks)



- 6 Shape A is enlarged to give shape B.
Shape C is enlarged to give shape D.



- (a) Complete the statements below

Shape A has been enlarged by scale factor 3 to give shape B.

Shape C has been enlarged by scale factor $\frac{1}{2}$ to give shape D. (2)

- (b) Mark with a cross (\times), the centre of enlargement, for the enlargement from shape A to shape B.
Label this point P. (1)

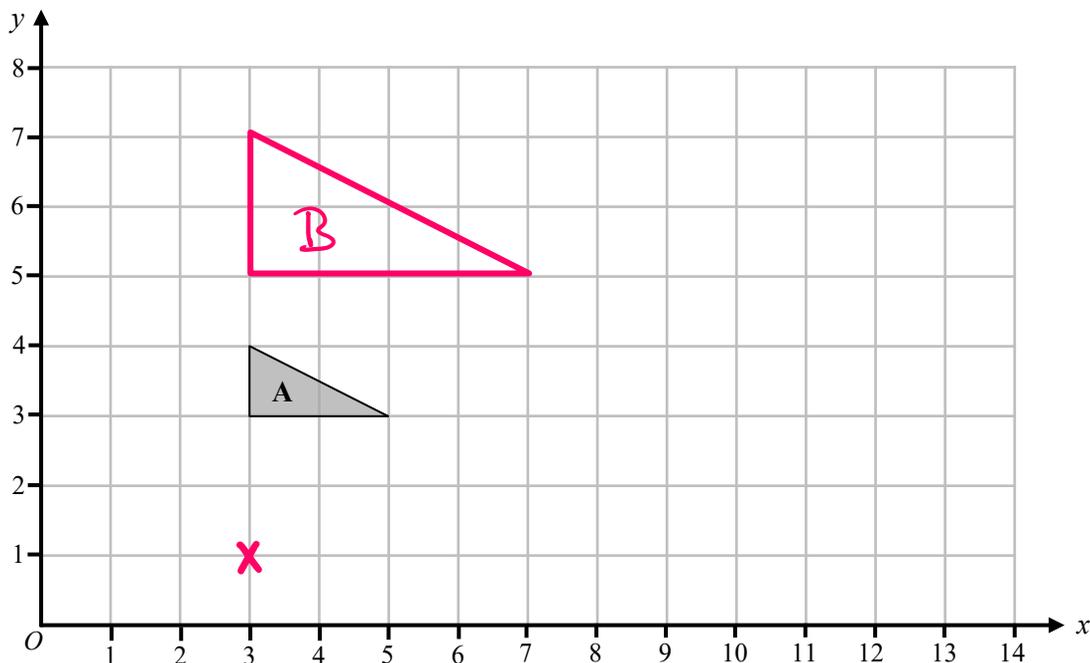
- (c) Mark with a cross (\times), the centre of enlargement, for the enlargement from shape C to shape D.
Label this point Q. (1)



(Total for Question 6 is 4 marks)

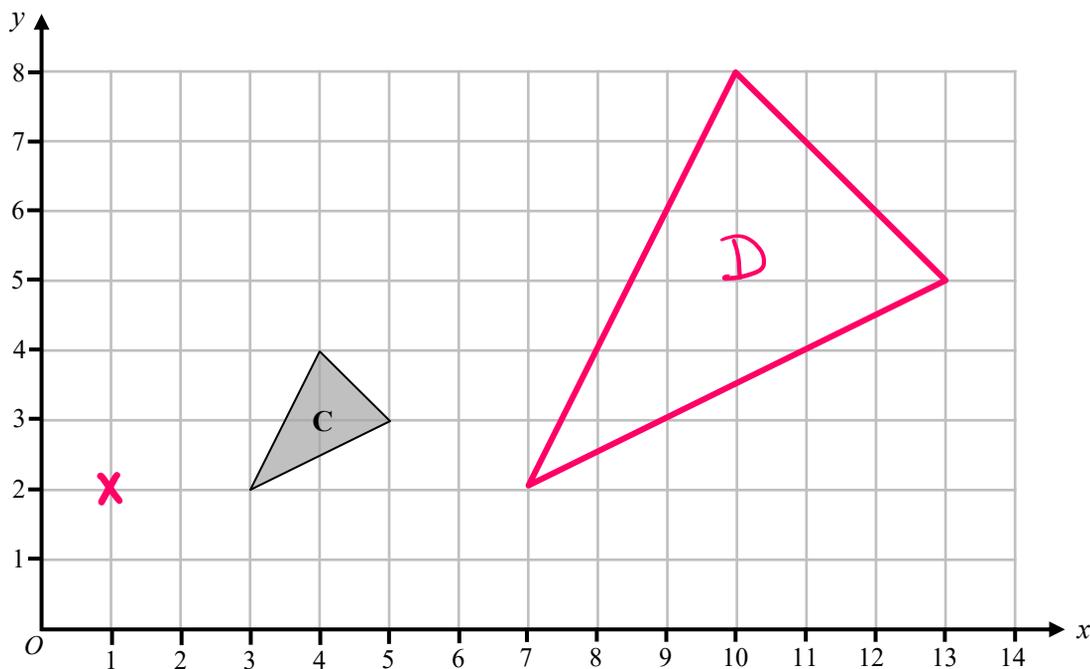
7 (a) Enlarge shape **A** by scale factor 2 with centre of enlargement (3, 1)
Label the image shape **B**.

(2)



(b) Enlarge shape **C** by scale factor 3 with centre of enlargement (1, 2)
Label the image shape **D**.

(2)

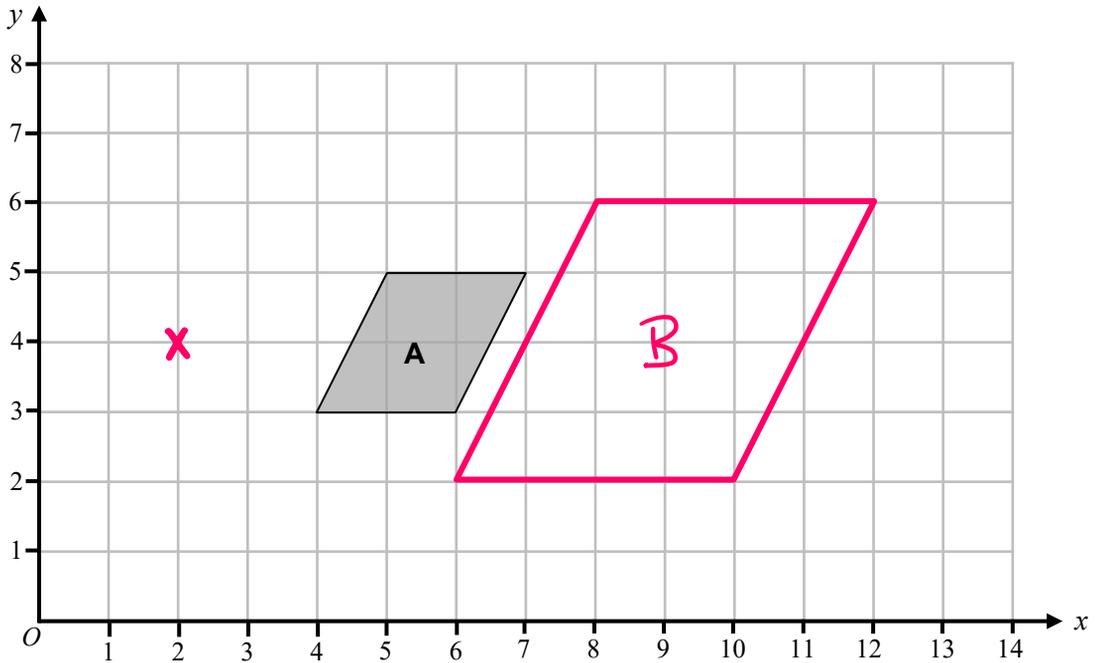


(Total for Question 7 is 4 marks)



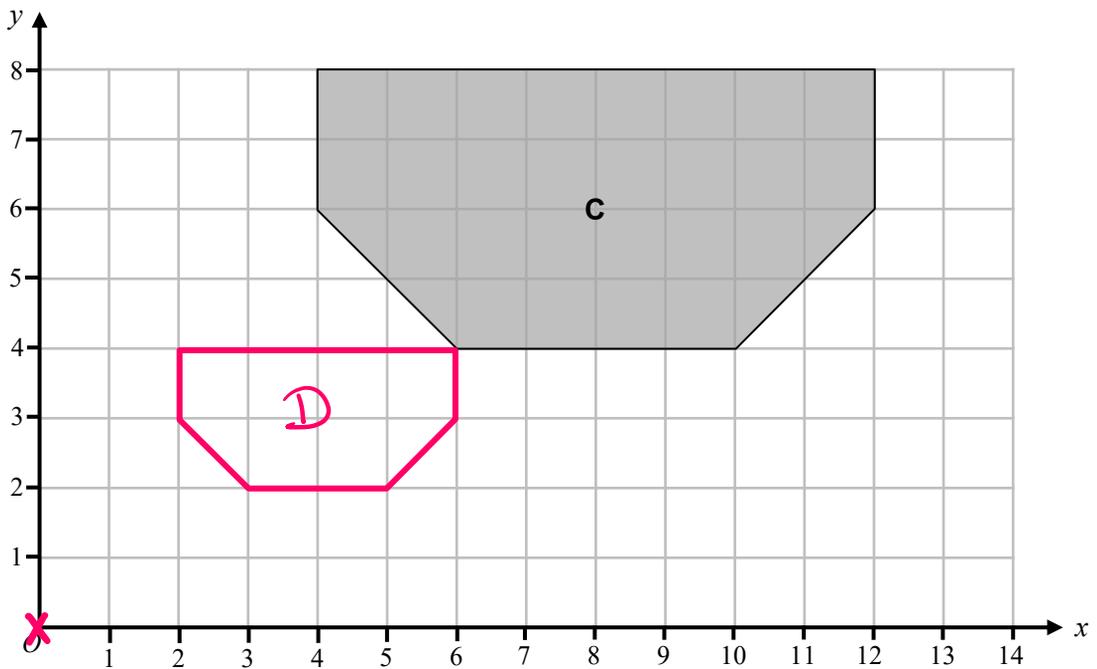
8 (a) Enlarge shape **A** by scale factor 2 with centre of enlargement (2, 4)
Label the image shape **B**.

(2)



(b) Enlarge shape **C** by scale factor 0.5 with centre of enlargement (0, 0)
Label the image shape **D**.

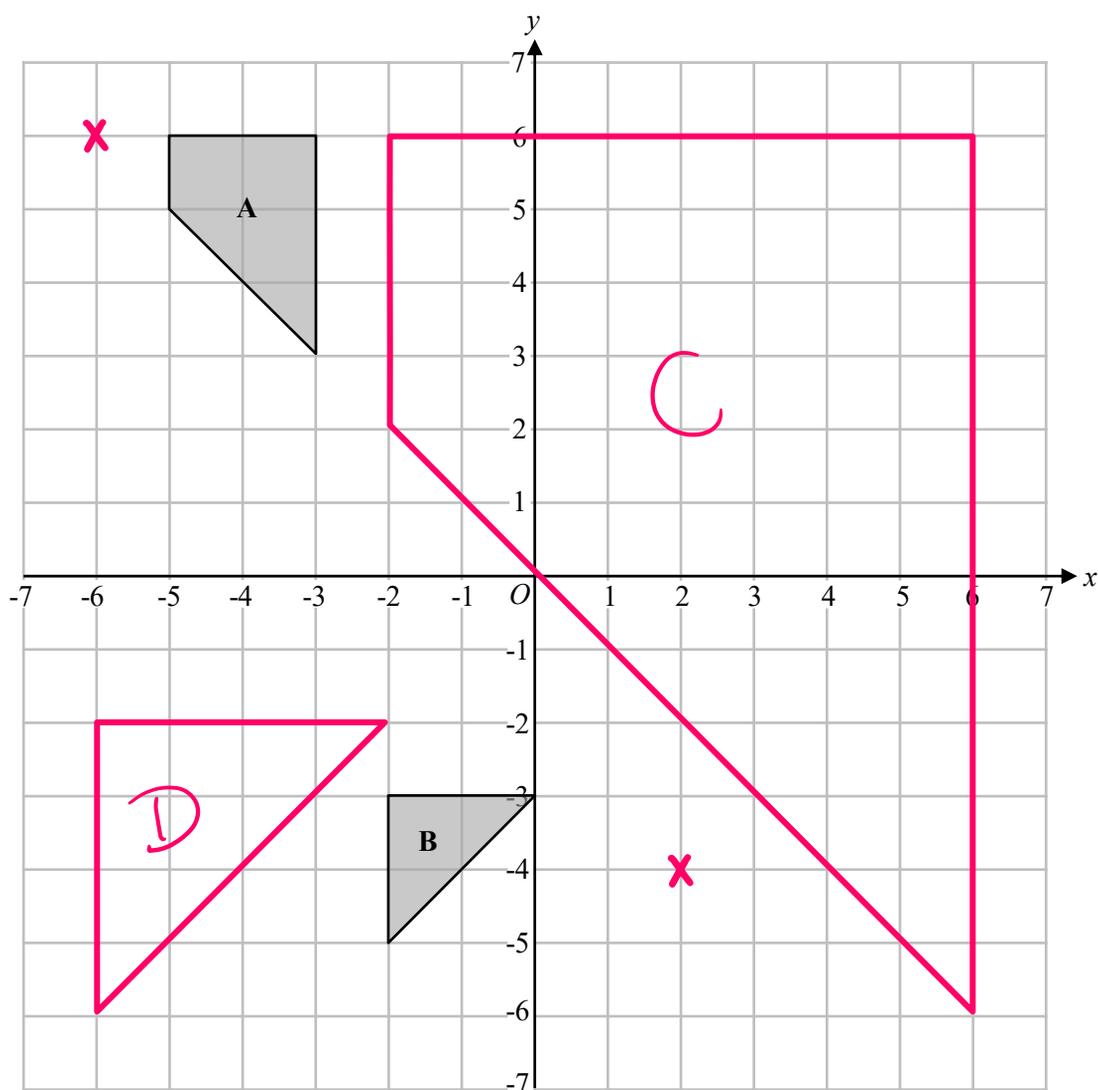
(2)



(Total for Question 8 is 4 marks)



9 Shape **A** and Shape **B** are shown on the grid below.



(a) Enlarge shape **A** by scale factor 4 with centre of enlargement $(-6, 6)$
Label the image shape **C**.

(2)

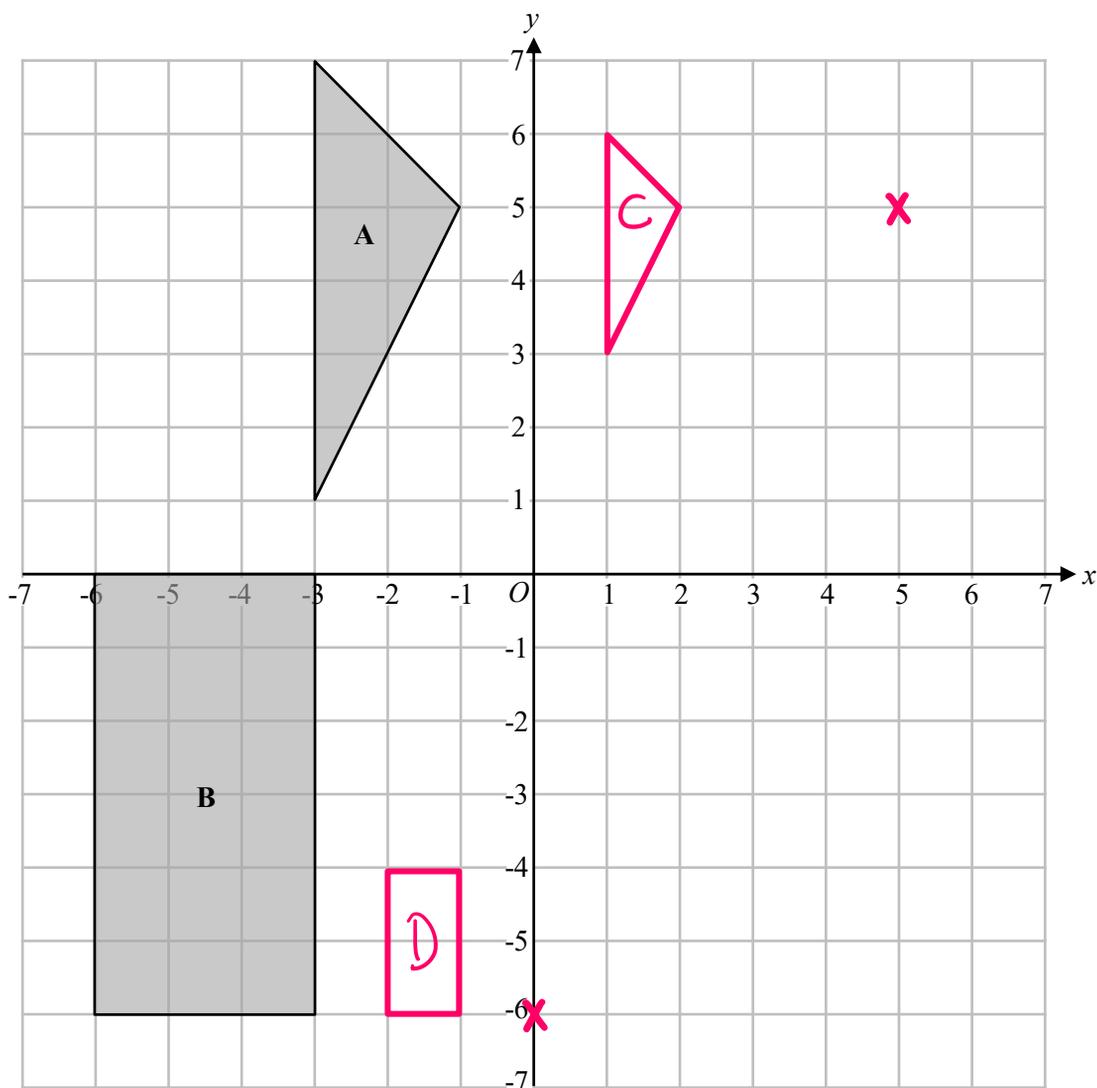
(b) Enlarge shape **B** by scale factor 2 with centre of enlargement $(2, -4)$
Label the image shape **D**.

(2)



(Total for Question 9 is 4 marks)

10 Shape A and Shape B are shown on the grid below.



(a) Enlarge shape A by scale factor $\frac{1}{2}$ with centre of enlargement (5, 5)
Label the image shape C.

(2)

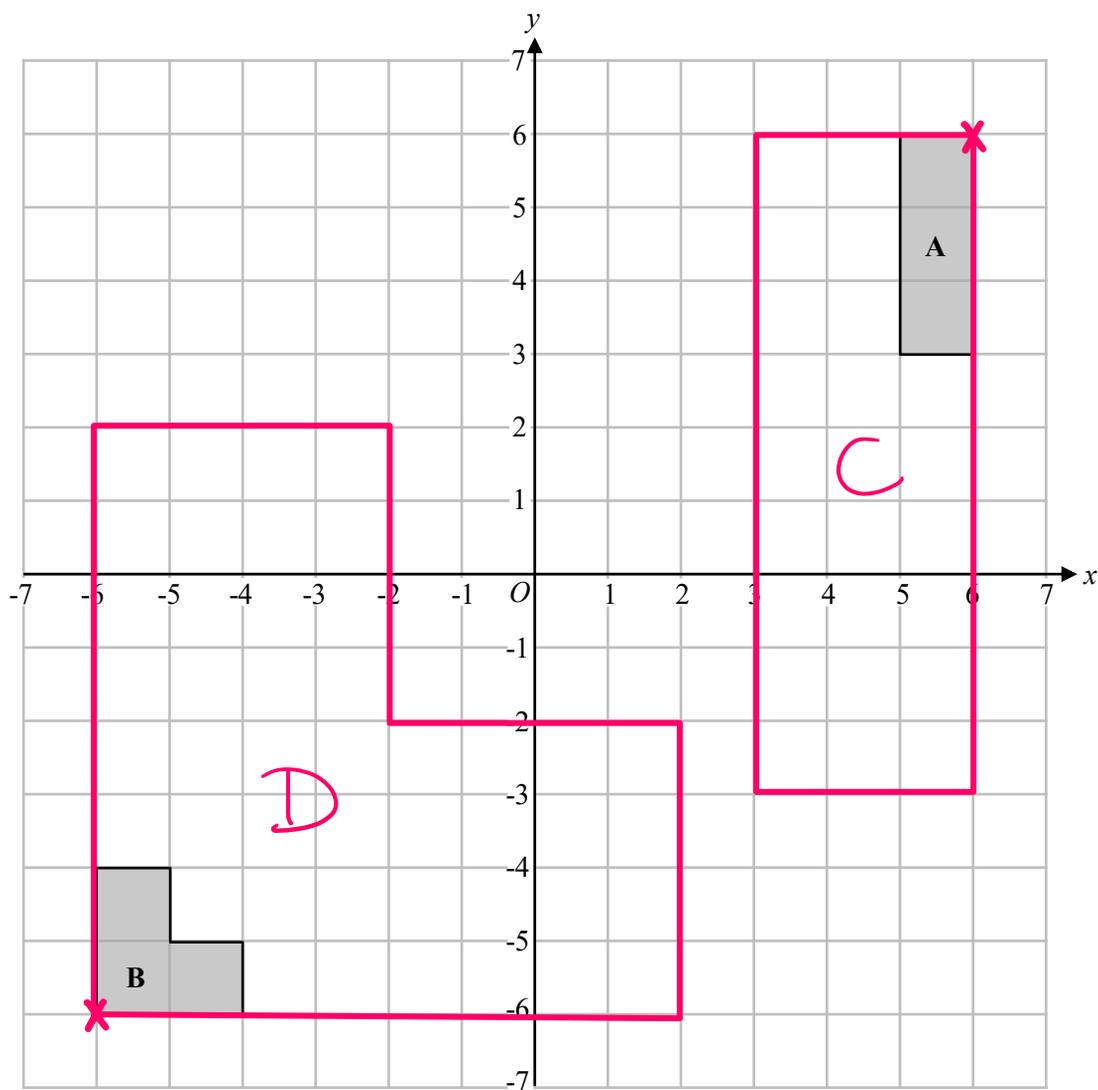
(b) Enlarge shape B by scale factor $\frac{1}{3}$ with centre of enlargement (0, -6)
Label the image shape D.

(2)



(Total for Question 10 is 4 marks)

11 Shape A and Shape B are shown on the grid below.



(a) Enlarge shape A by scale factor 3 with centre of enlargement (6, 6)
Label the image shape C.

(2)

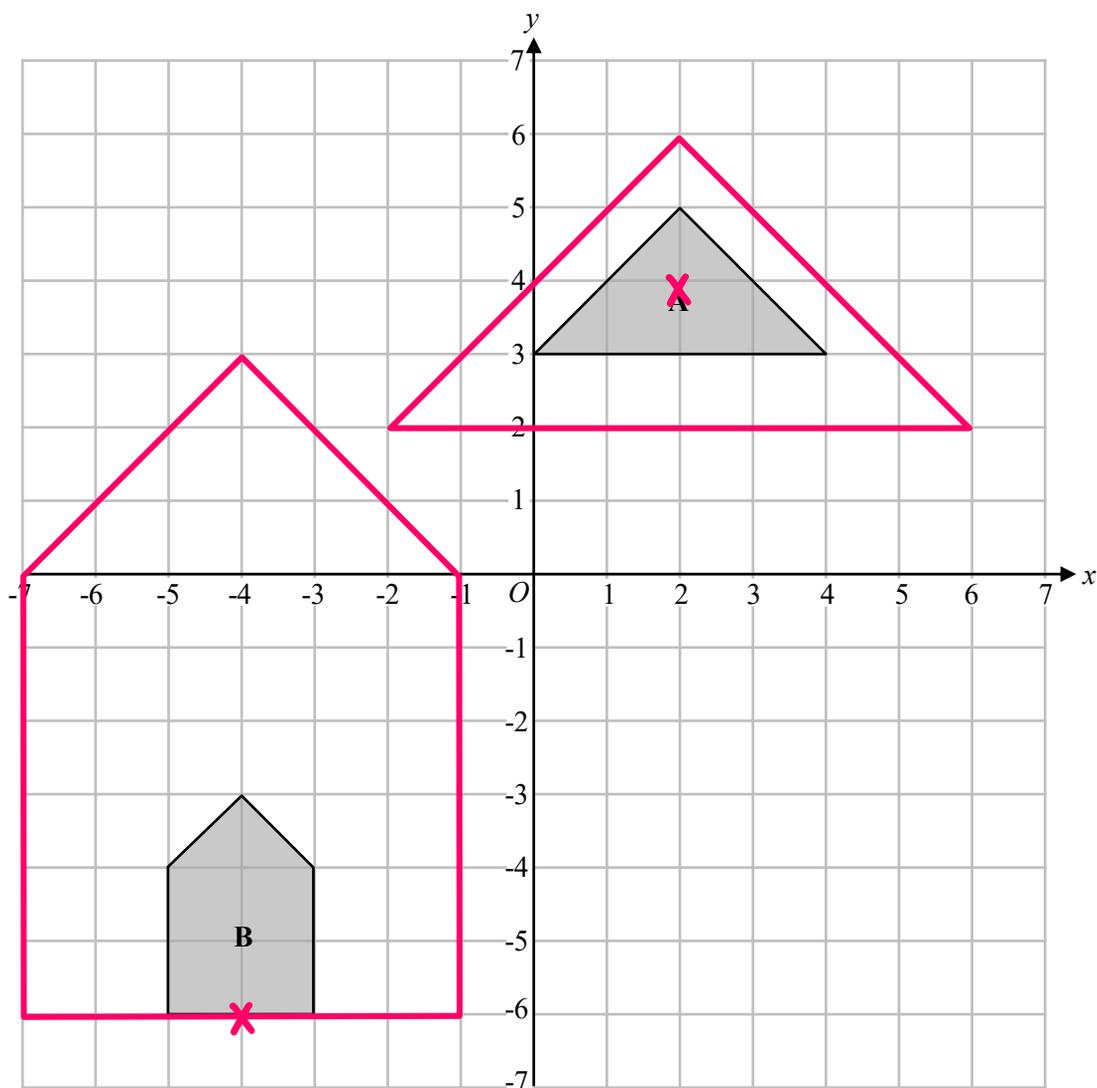
(b) Enlarge shape B by scale factor 4 with centre of enlargement (-6, -6)
Label the image shape D.

(2)

(Total for Question 11 is 4 marks)



12 Shape **A** and Shape **B** are shown on the grid below.



(a) Enlarge shape **A** by scale factor 2 with centre of enlargement (2, 4)
Label the image shape **C**.

(2)

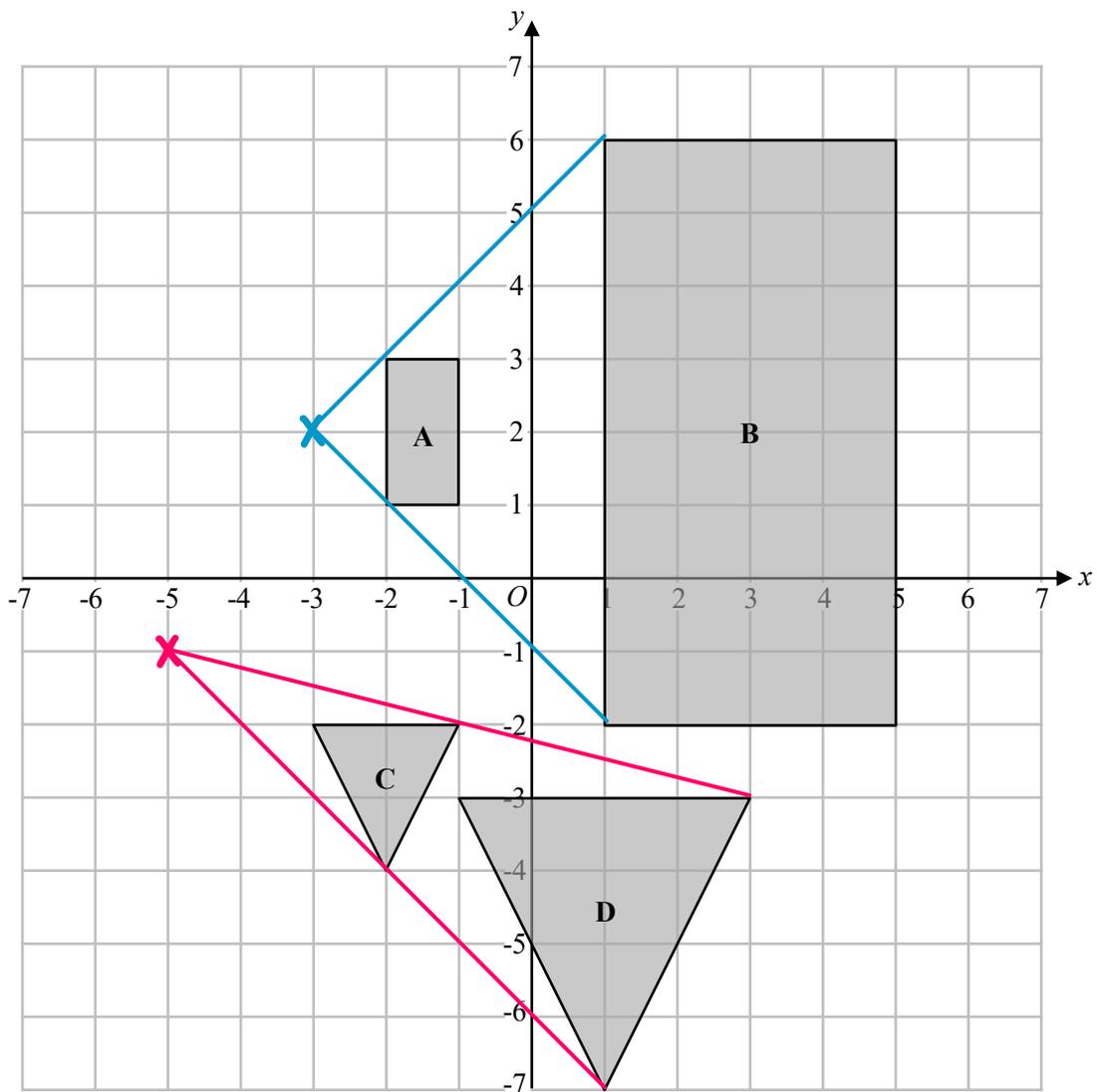
(b) Enlarge shape **B** by scale factor 3 with centre of enlargement (-4, -6)
Label the image shape **D**.

(2)



(Total for Question 12 is 4 marks)

13



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

Enlargement, scale factor 4,
 centre of enlargement (-3, 2)

(2)

(b) Describe fully the single transformation that maps shape C onto shape D.

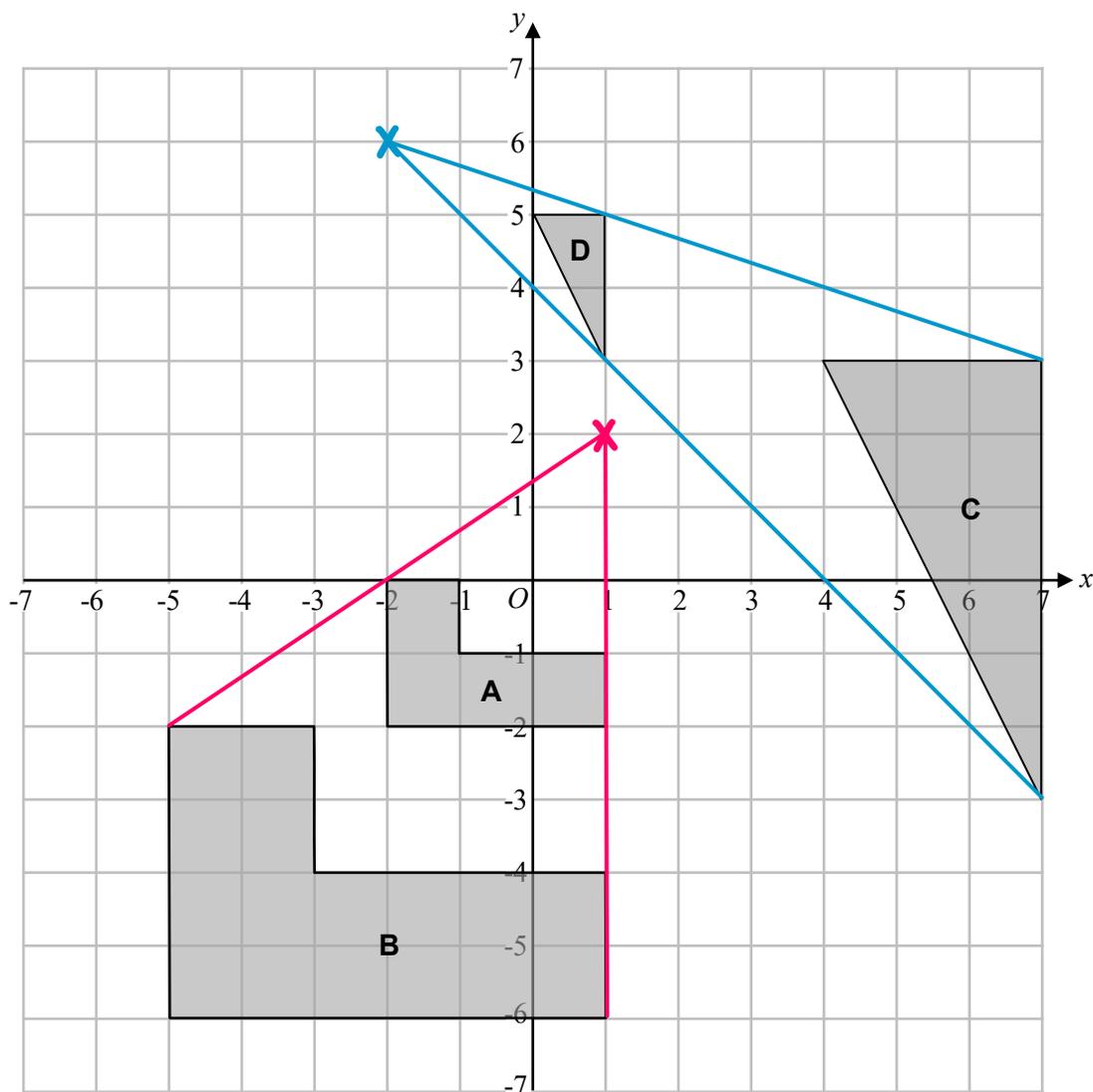
Enlargement, scale factor 2,
 centre of enlargement (-5, -1)

(2)

(Total for Question 13 is 4 marks)



14



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

Enlargement, scale factor 2,
 centre of enlargement (1, 2)

(2)

(b) Describe fully the single transformation that maps shape C onto shape D.

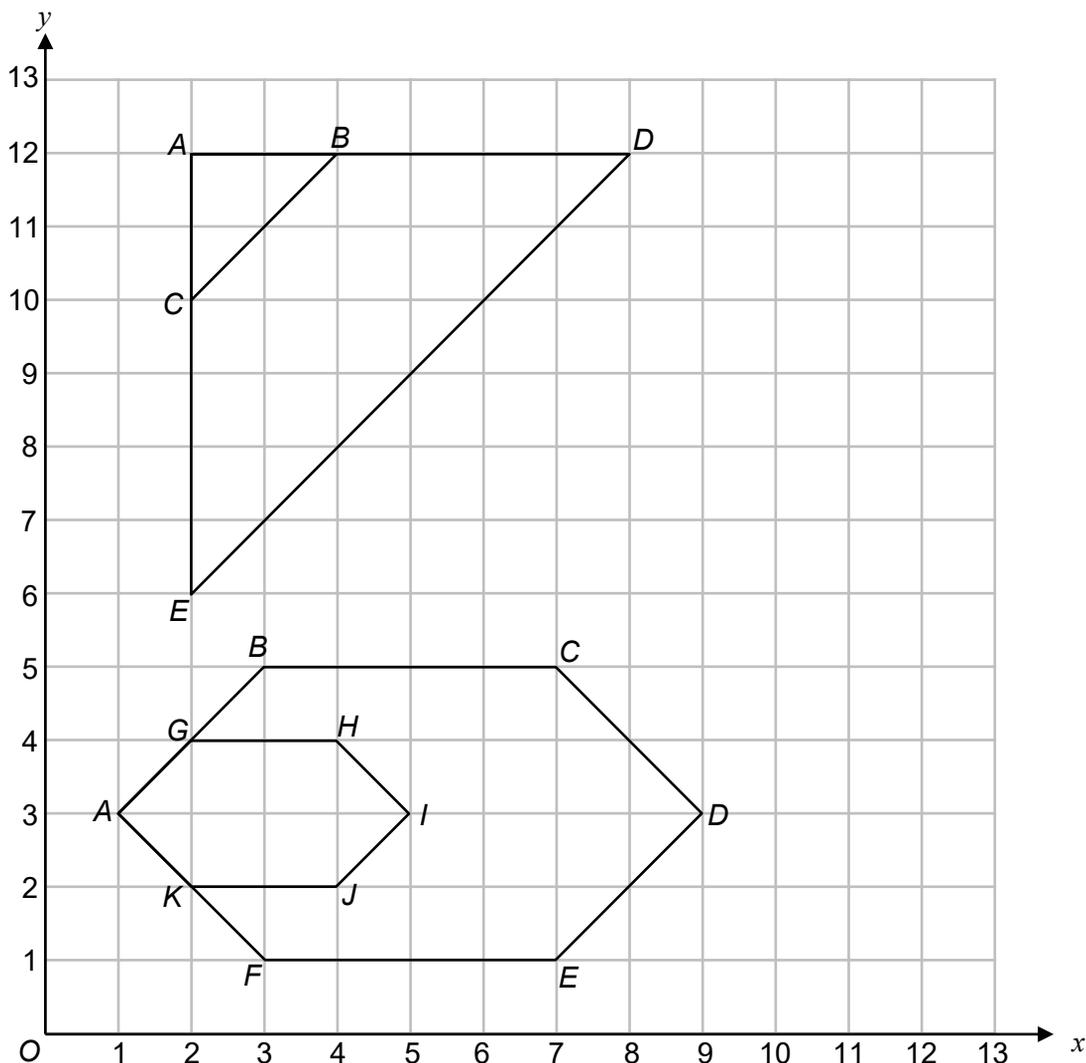
Enlargement, scale factor $\frac{1}{3}$,
 centre of enlargement (-2, 6)

(2)

(Total for Question 14 is 4 marks)



15



(a) Describe fully the single transformation that maps shape AGHIJK onto shape ABCDEF.

Enlargement, scale factor 2,
 centre of enlargement (1, 3)

(2)

(b) Describe fully the single transformation that maps triangle ABC to triangle ADE

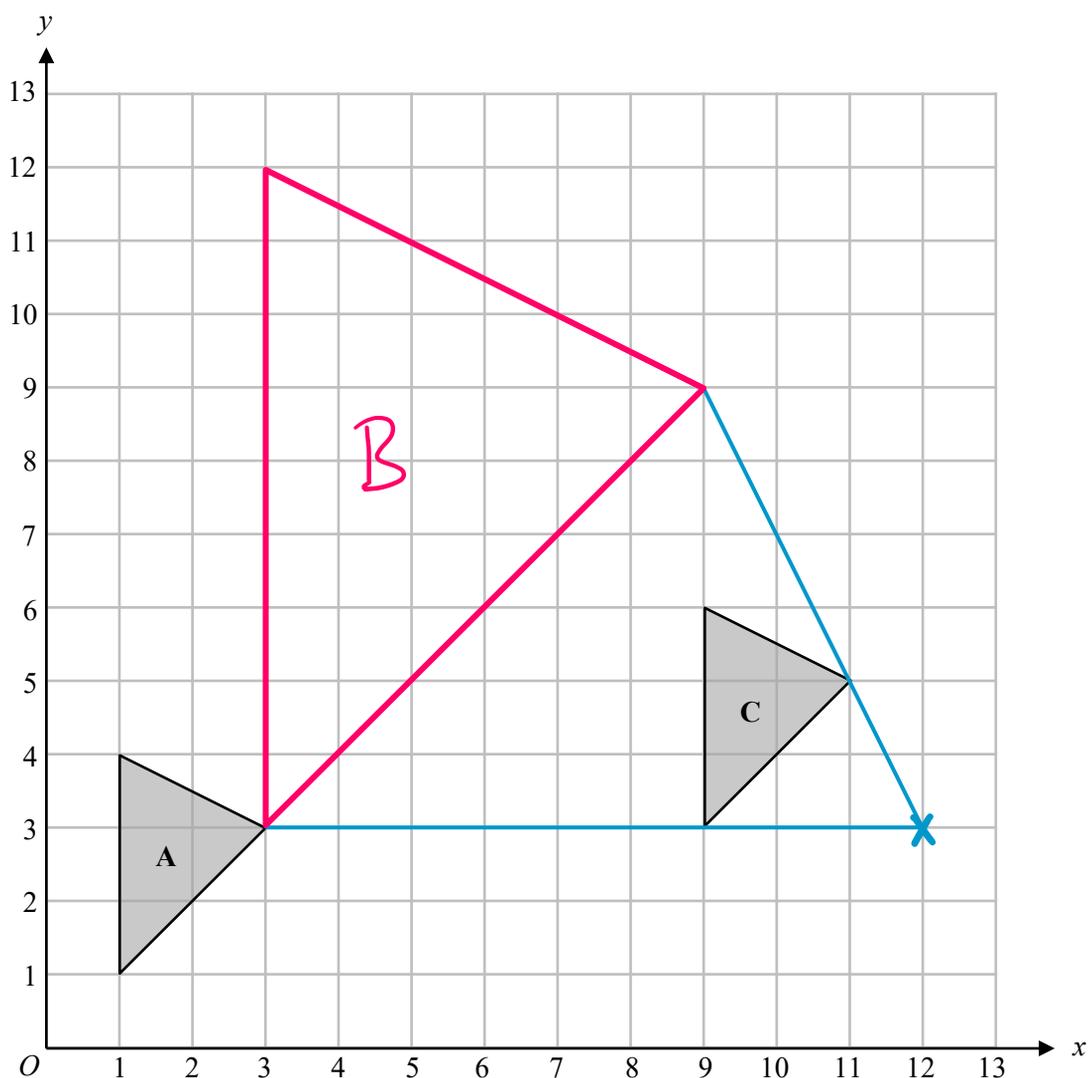
Enlargement, scale factor 3,
 centre of enlargement (2, 12)

(2)

(Total for Question 15 is 4 marks)



16



Shape **A** is enlarged by scale factor 3 with centre of enlargement $(0, 0)$ to shape **B**.

Shape **B** is enlarged to shape **C**.

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

Enlargement, scale factor $\frac{1}{3}$,
 centre of enlargement $(12, 3)$

(Total for Question 16 is 4 marks)

