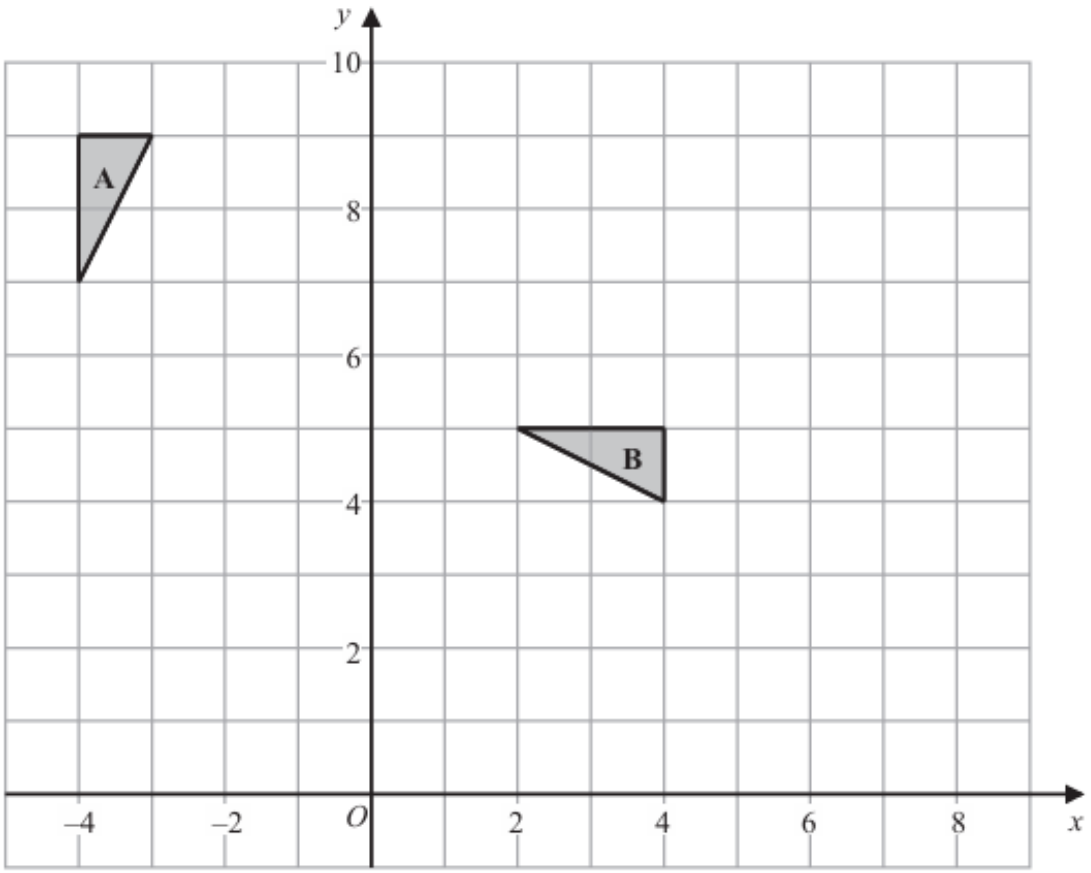
TRANSFORMATIONS

Question 1



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

.....

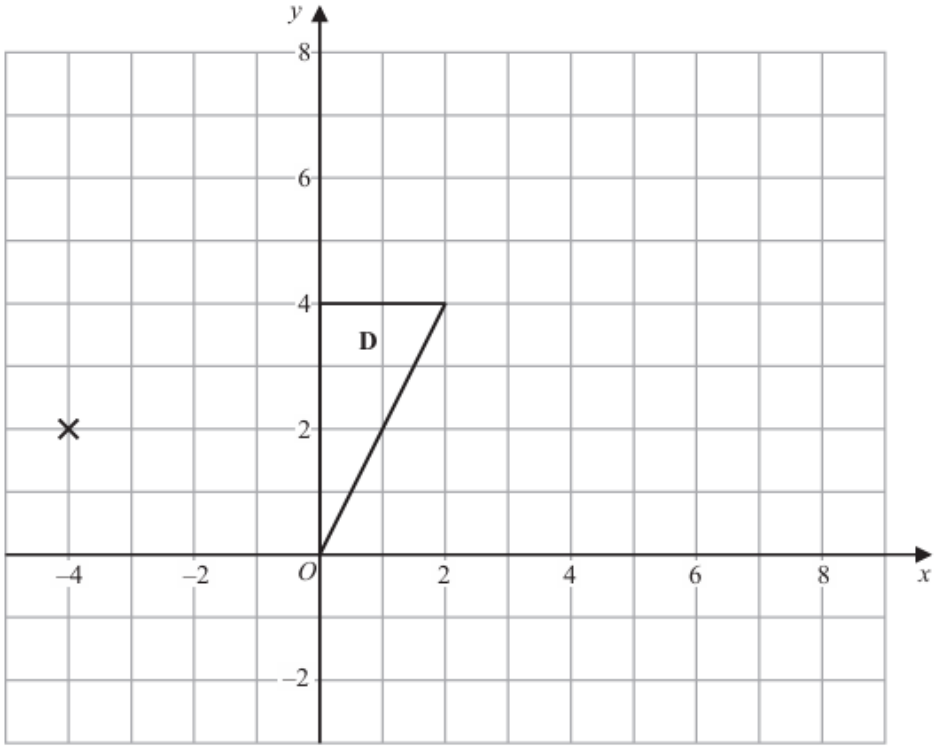
.....

(3)

(b) On the grid, translate triangle **A** by the vector $\begin{pmatrix} 2 \\ -5 \end{pmatrix}$

Label the new triangle **C**.

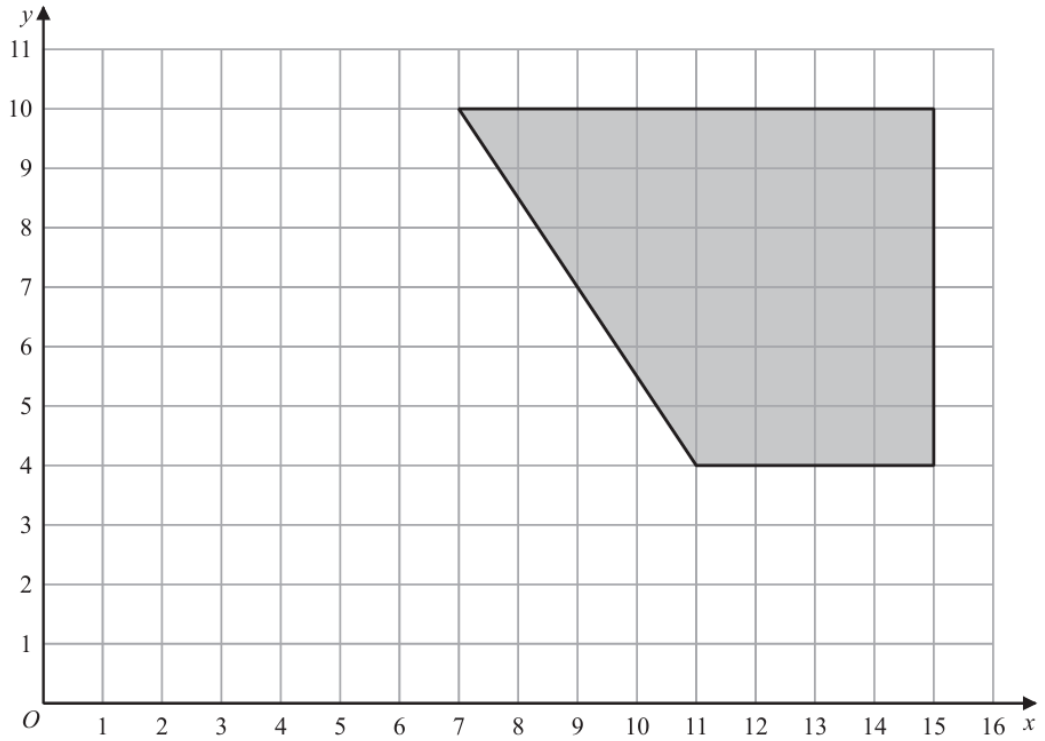
(1)



(c) On the grid, enlarge triangle **D** with scale factor $\frac{1}{2}$ and centre (−4, 2)

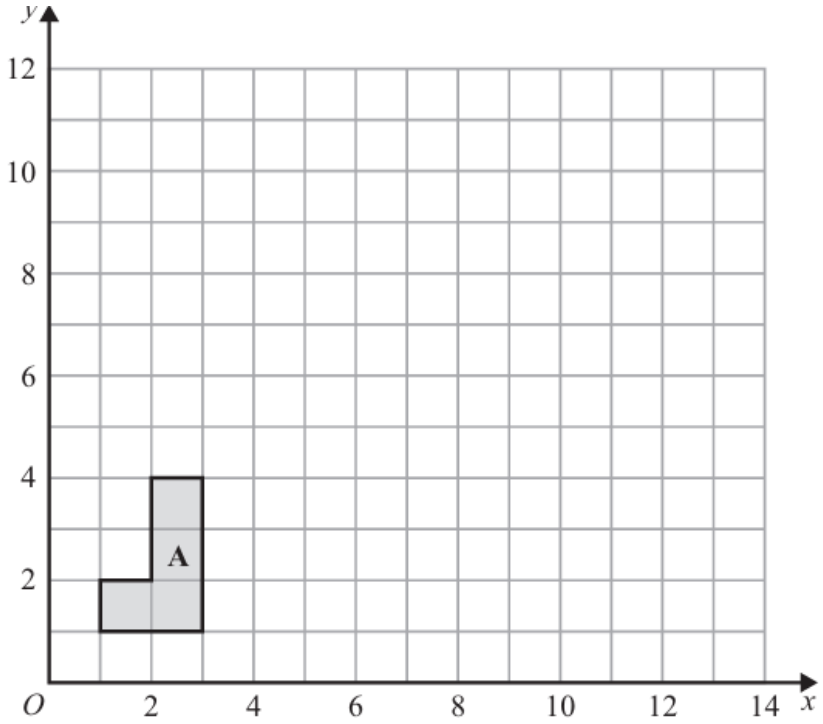
(2)

Question 2



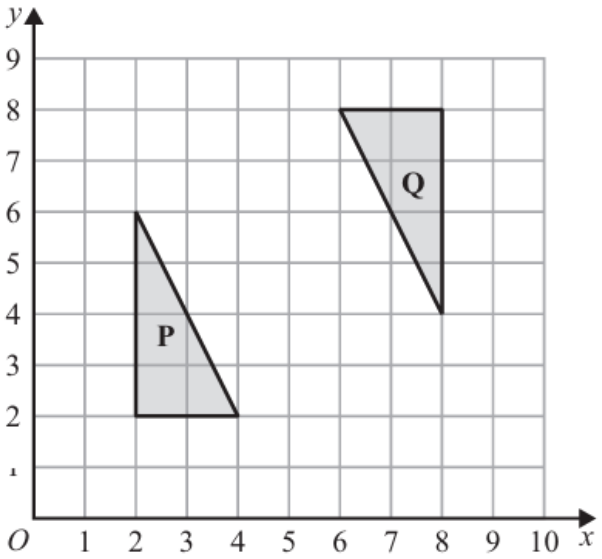
On the grid, enlarge the shaded shape with scale factor $\frac{1}{2}$ and centre (1, 2)

Question 3



(a) On the grid, enlarge shape **A** with scale factor 3 and centre (0, 1)

(2)



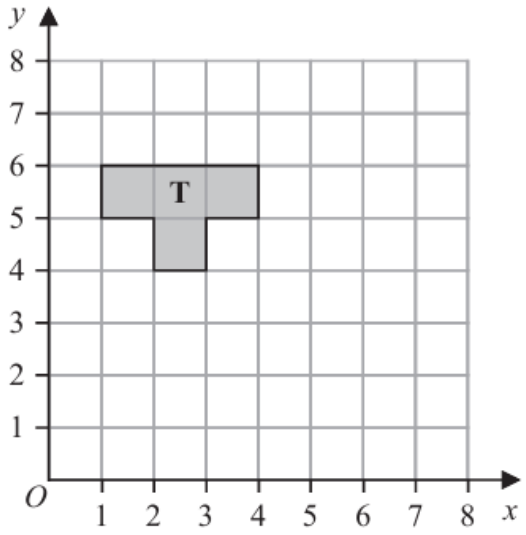
(b) Describe fully the single transformation that maps triangle **P** onto triangle **Q**

.....

.....

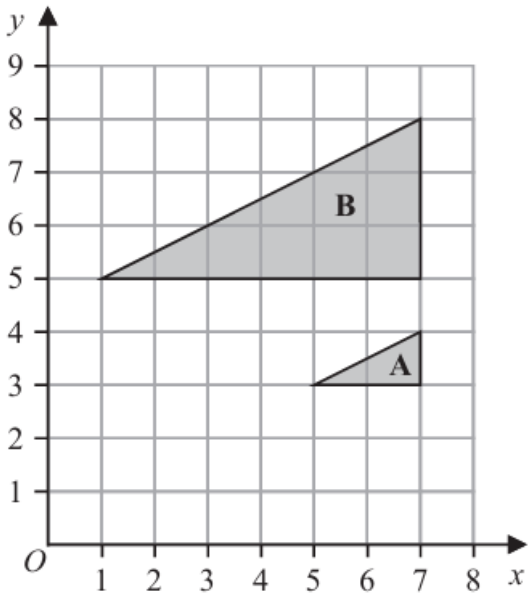
(3)

Question 4



(a) Reflect shape **T** in the line $y = x$

(2)



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

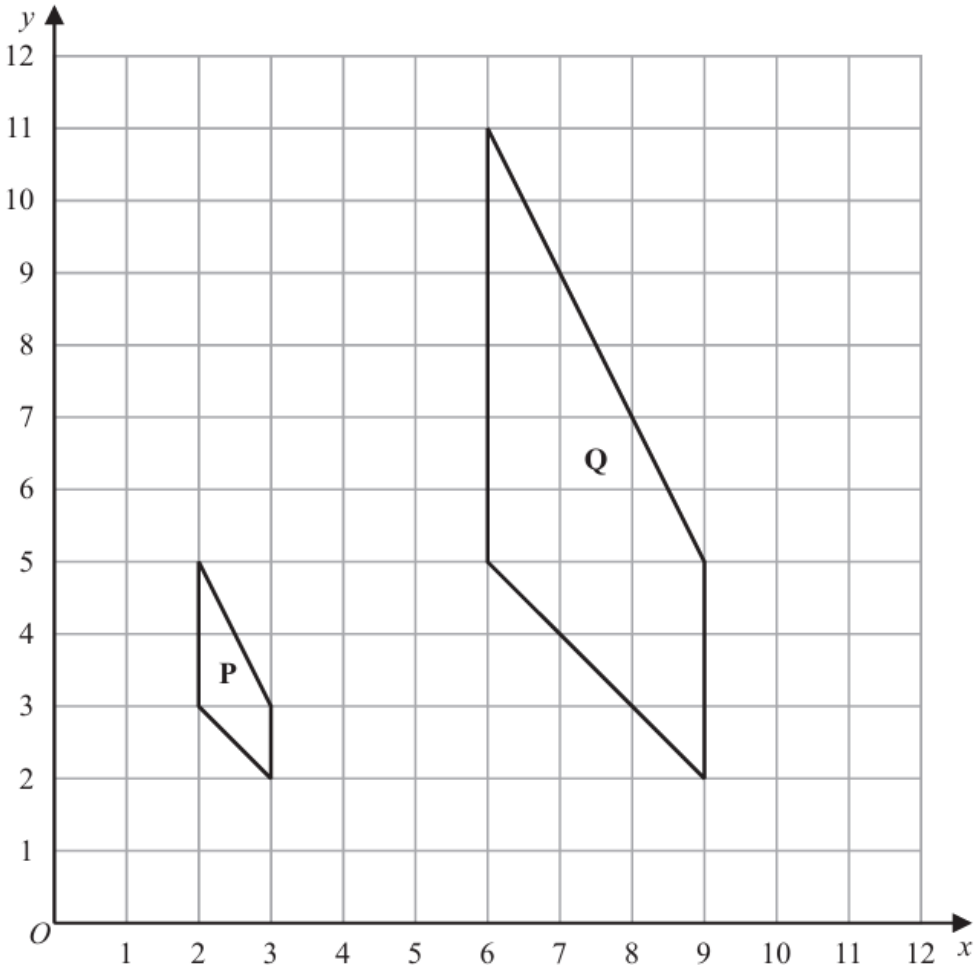
.....

.....

(3)

Question 5

The diagram shows shape **P** and shape **Q** drawn on a grid.



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

.....

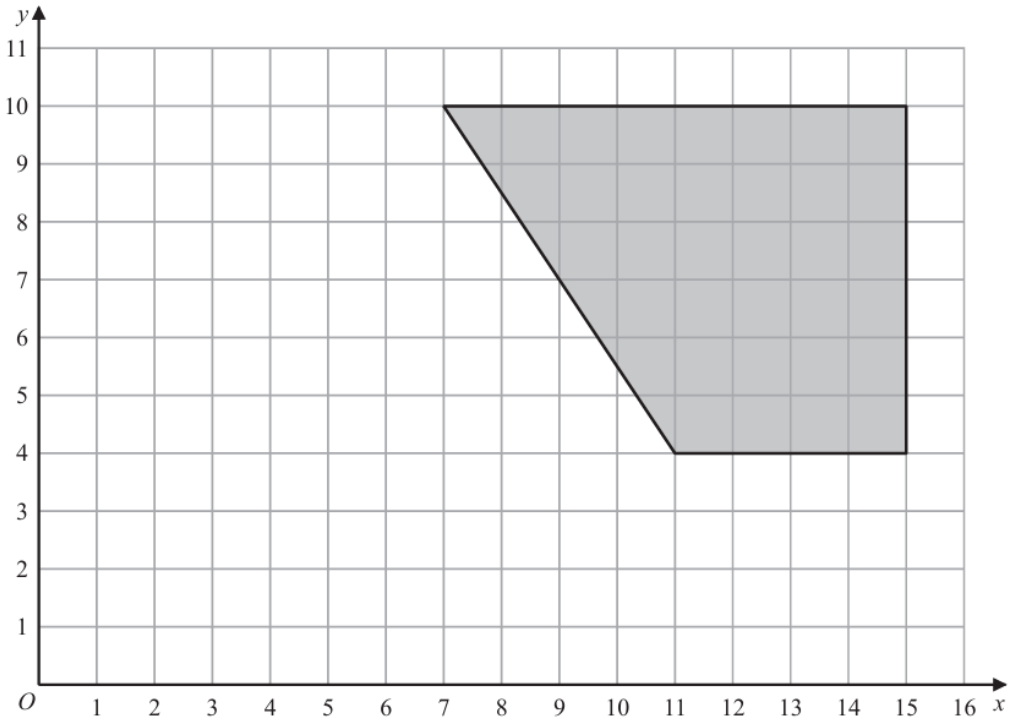
.....

(3)

(c) On the grid above, rotate shape **P** 90° clockwise about (3, 5)
Label your shape **R**

(2)

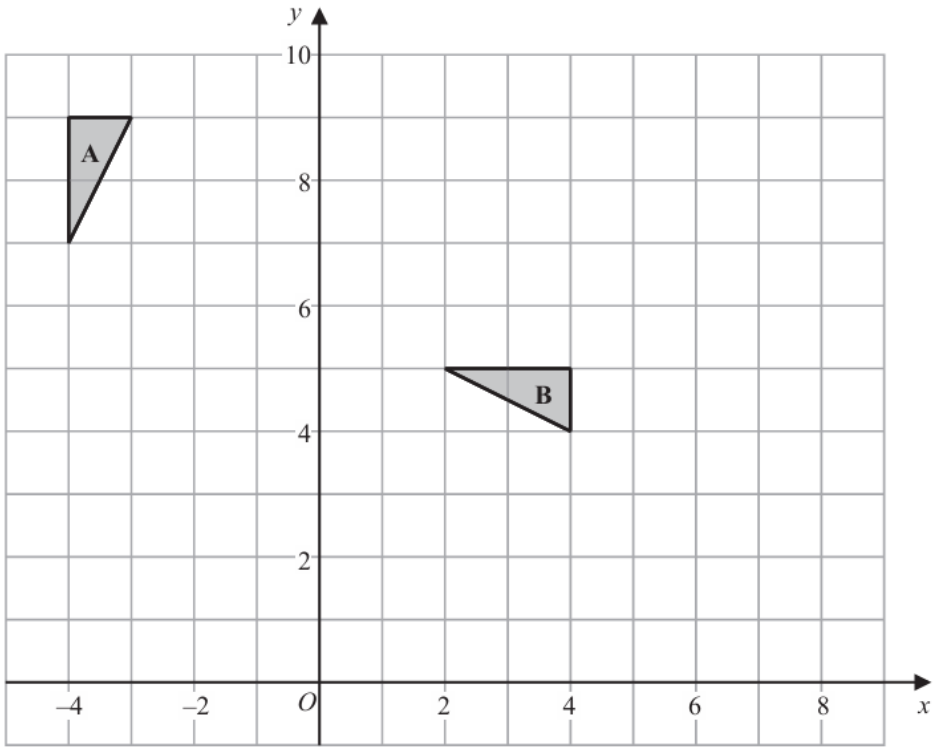
Question 6



On the grid, enlarge the shaded shape with scale factor $\frac{1}{2}$ and centre (1, 2)

(2)

Question 7



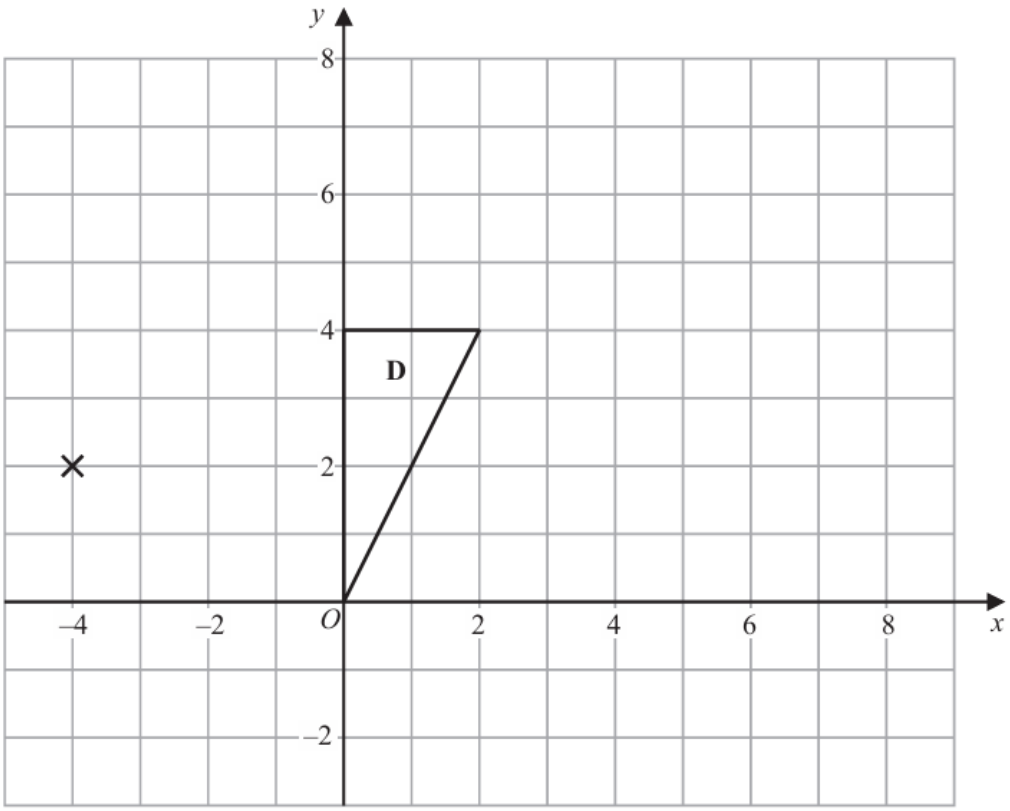
(a) Describe fully the single transformation that maps triangle **A** onto triangle **B**.

(3)

(b) On the grid, translate triangle **A** by the vector $\begin{pmatrix} 2 \\ -5 \end{pmatrix}$

Label the new triangle **C**.

(1)



(c) On the grid, enlarge triangle **D** with scale factor $\frac{1}{2}$ and centre $(-4, 2)$

(2)