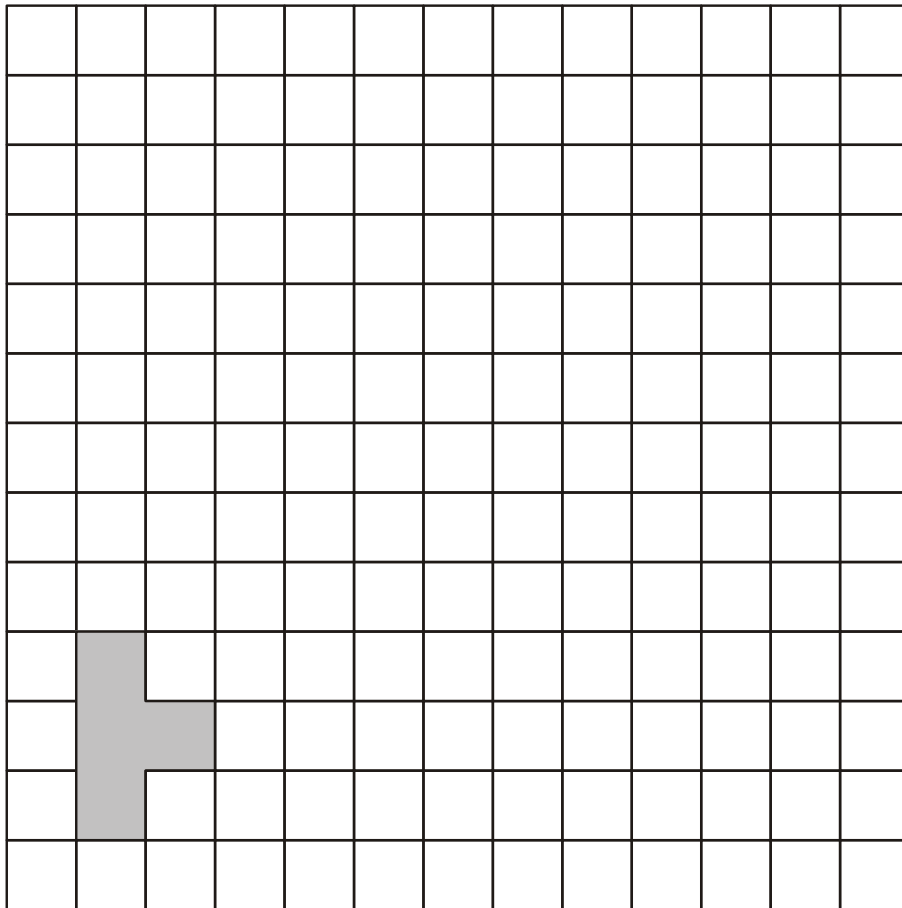


**Enlargements and Scale Factors Hwk**

1. (a) Enlarge the shaded shape by a scale factor of 3.



(2)

- (b) How many times bigger is the area of the enlarged shape than the area of the small shape?

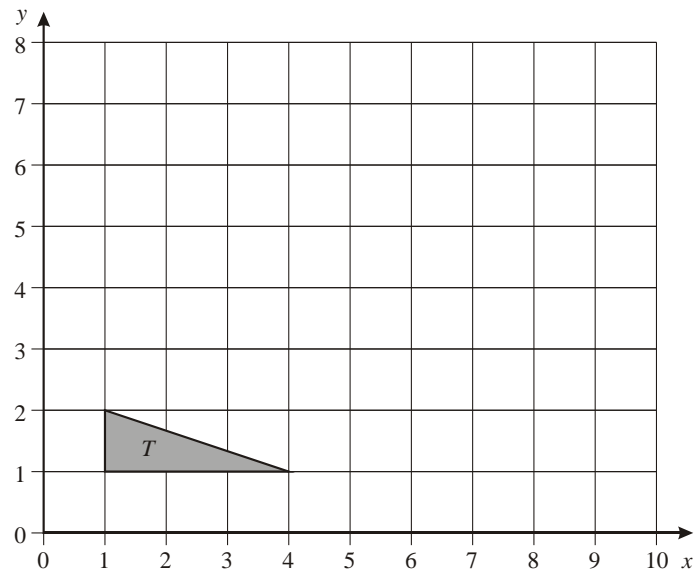
.....  
.....  
.....

Answer .....

(2)

**(Total 4 marks)**

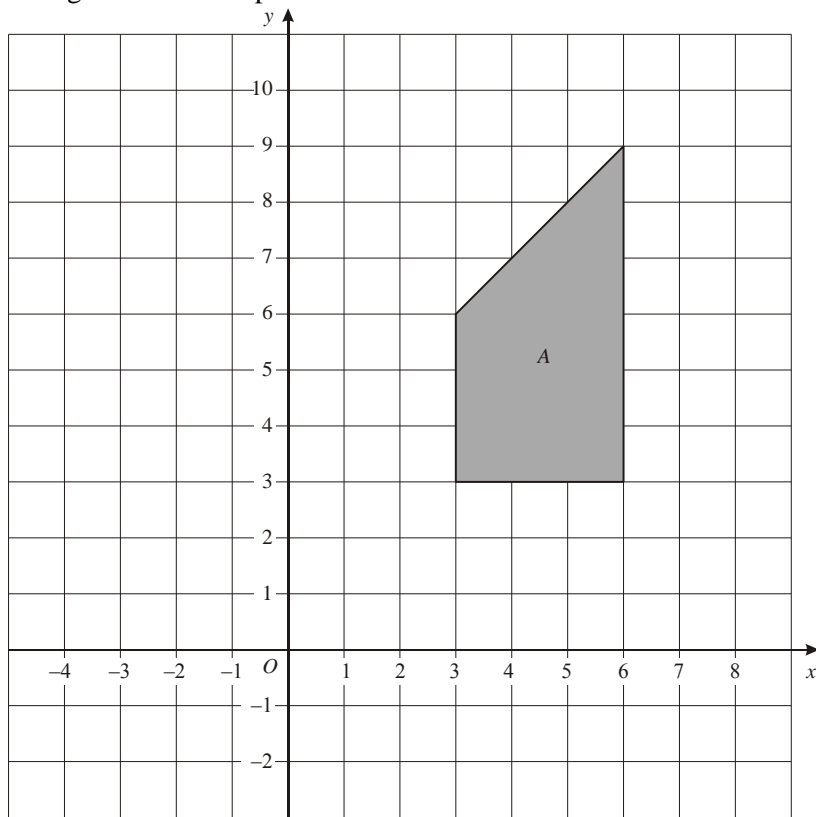
2. The vertices of triangle  $T$  are  $(1, 1)$ ,  $(1, 2)$  and  $(4, 1)$ .



Enlarge triangle  $T$  by scale factor 2, with  $(0, 0)$  as the centre of enlargement.

(Total 3 marks)

3. The diagram shows shape

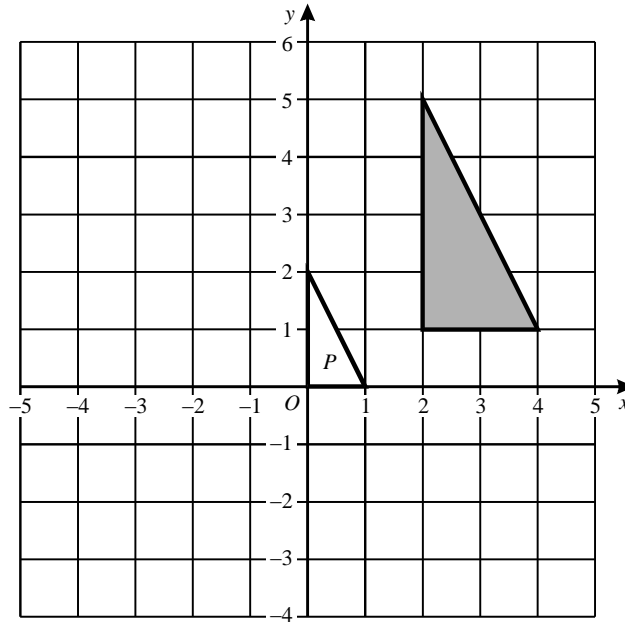


A.

Draw the enlargement of shape  $A$  with scale factor  $\frac{1}{3}$  and centre of enlargement  $(0,0)$ .

(Total 2 marks)

4. Triangle  $P$  is an enlargement of the shaded triangle.



- (a) What is the scale factor of the enlargement?

Answer .....

(1)

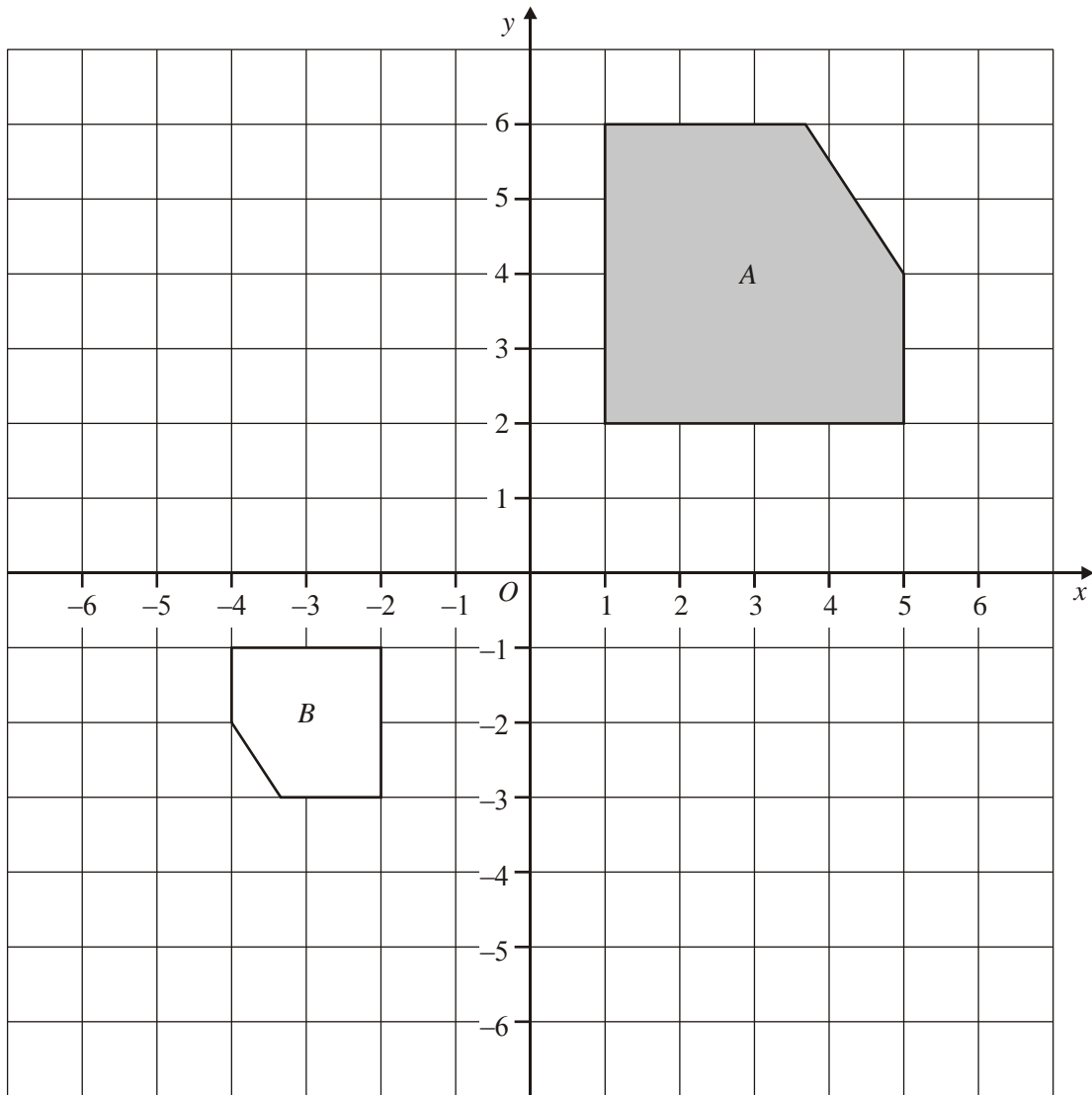
- (b) What is the centre of enlargement?

Answer (....., .....) )

(1)

(Total 2 marks)

5. In the diagram, shape *B* is an enlargement of the shaded shape *A*.



(a) Write down the coordinates of the centre of enlargement.

Answer .....

(1)

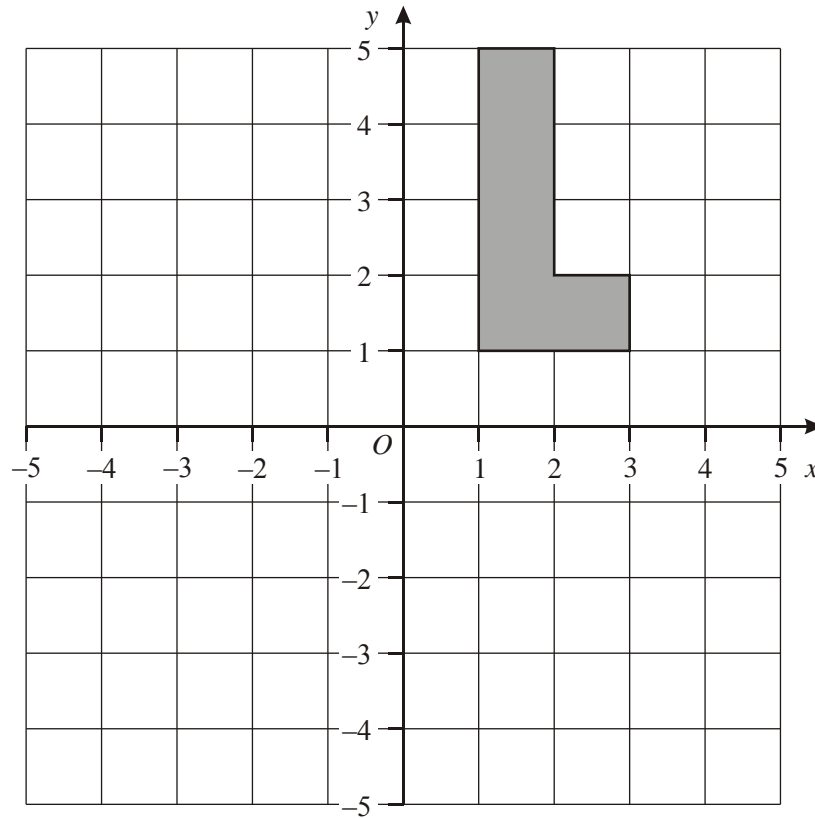
(b) Write down the scale factor of the enlargement.

Answer .....

(1)

(Total 2 marks)

6.



Enlarge the shaded shape by scale factor  $-\frac{1}{2}$  with centre of enlargement  $(-1, 0)$ .

**(Total 2 marks)**