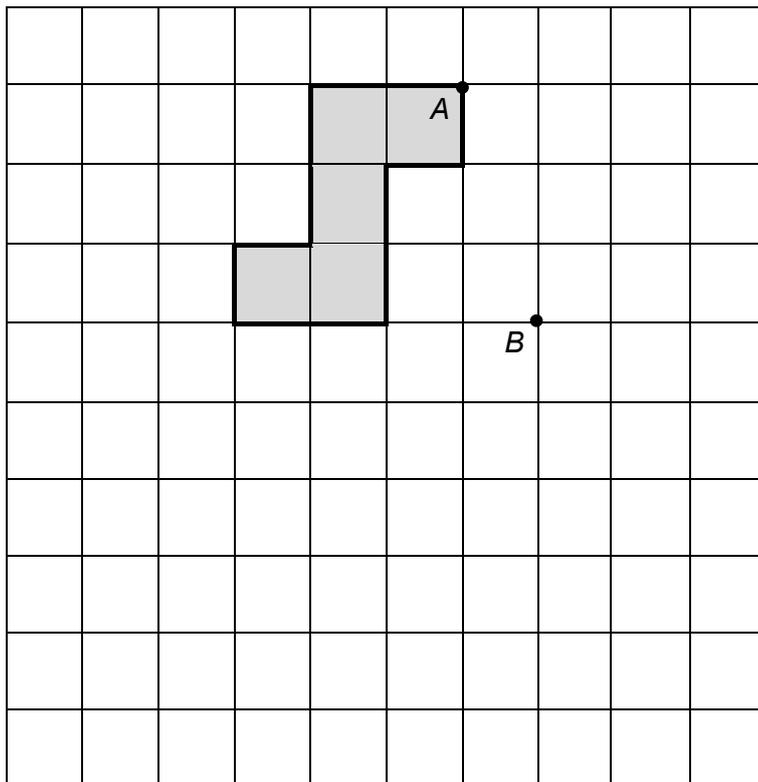


Topic test 1 (20 minutes)

Transformations - Foundation

1(a) Translate the shape so that point A moves to point B.

[1 mark]



1(b) Write the vector for this translation.

[1 mark]

Answer (\quad)

1(c) Circle the word that describes the two shapes.

[1 mark]

Similar

Congruent

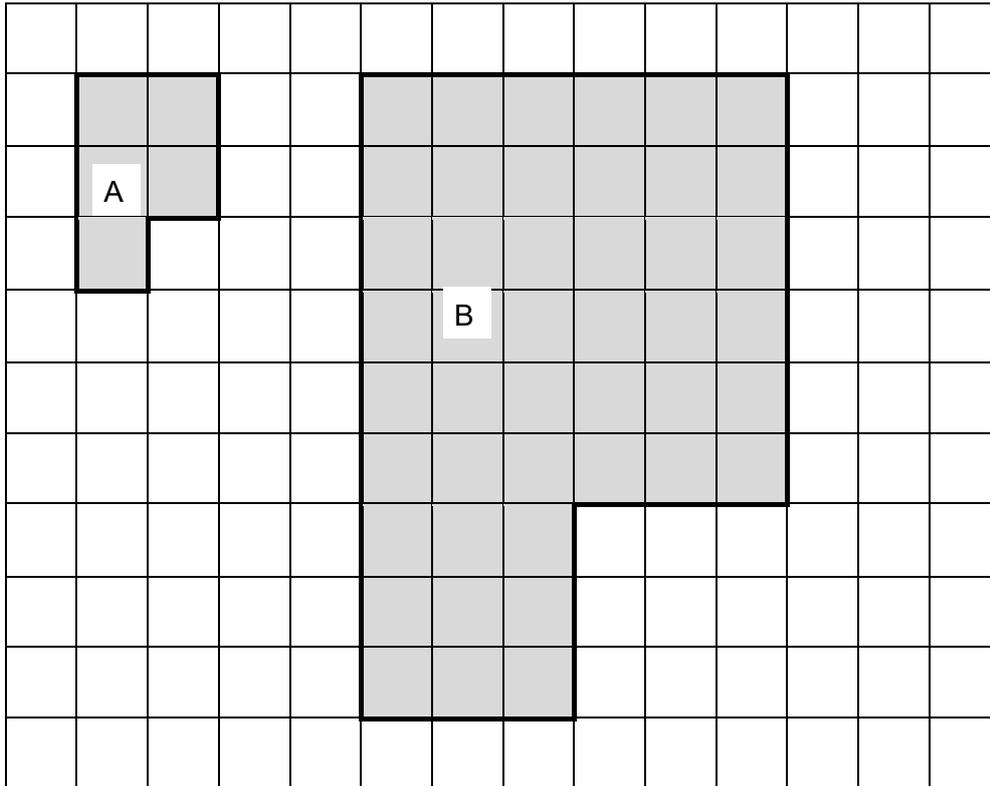
Enlargement

Corresponding

2(a) Write down the scale factor of the enlargement from shape A to shape B.

[1 mark]

Answer _____



2(b) Robert enlarges **shape B**.

The longest side in his enlargement is 4.5 squares.

What is the scale factor of Robert's enlargement?

[1 mark]

Answer _____

2(c) In shape A, what is the ration of the longest side length to the shortest side length?
Circle your answer.

[1 mark]

2 : 1

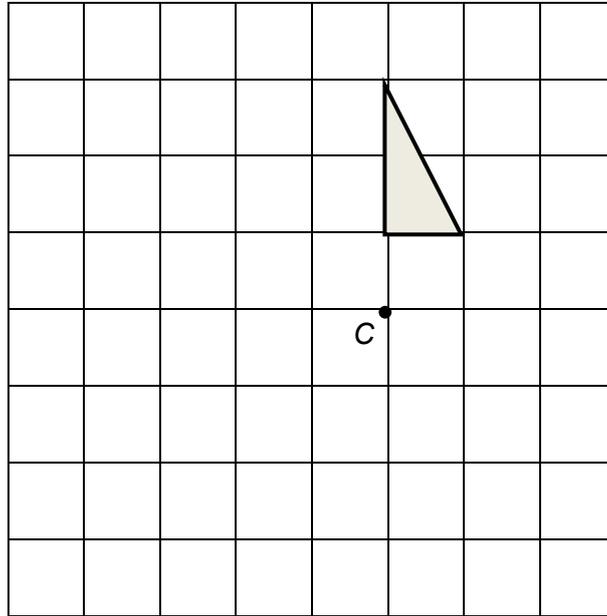
1 : 3

5 : 1

3 : 1

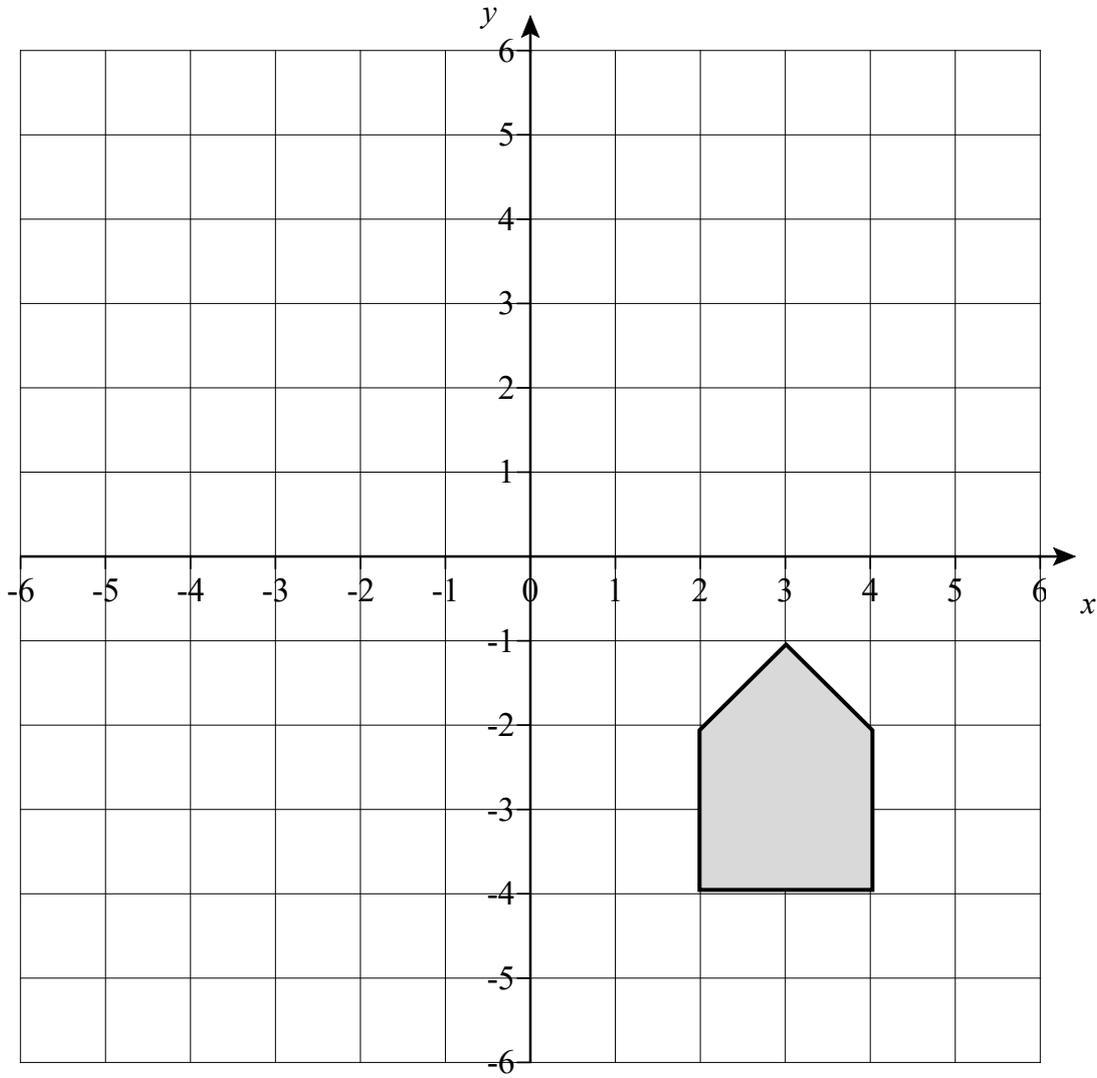
3 Rotate the triangle 180° about the point C.

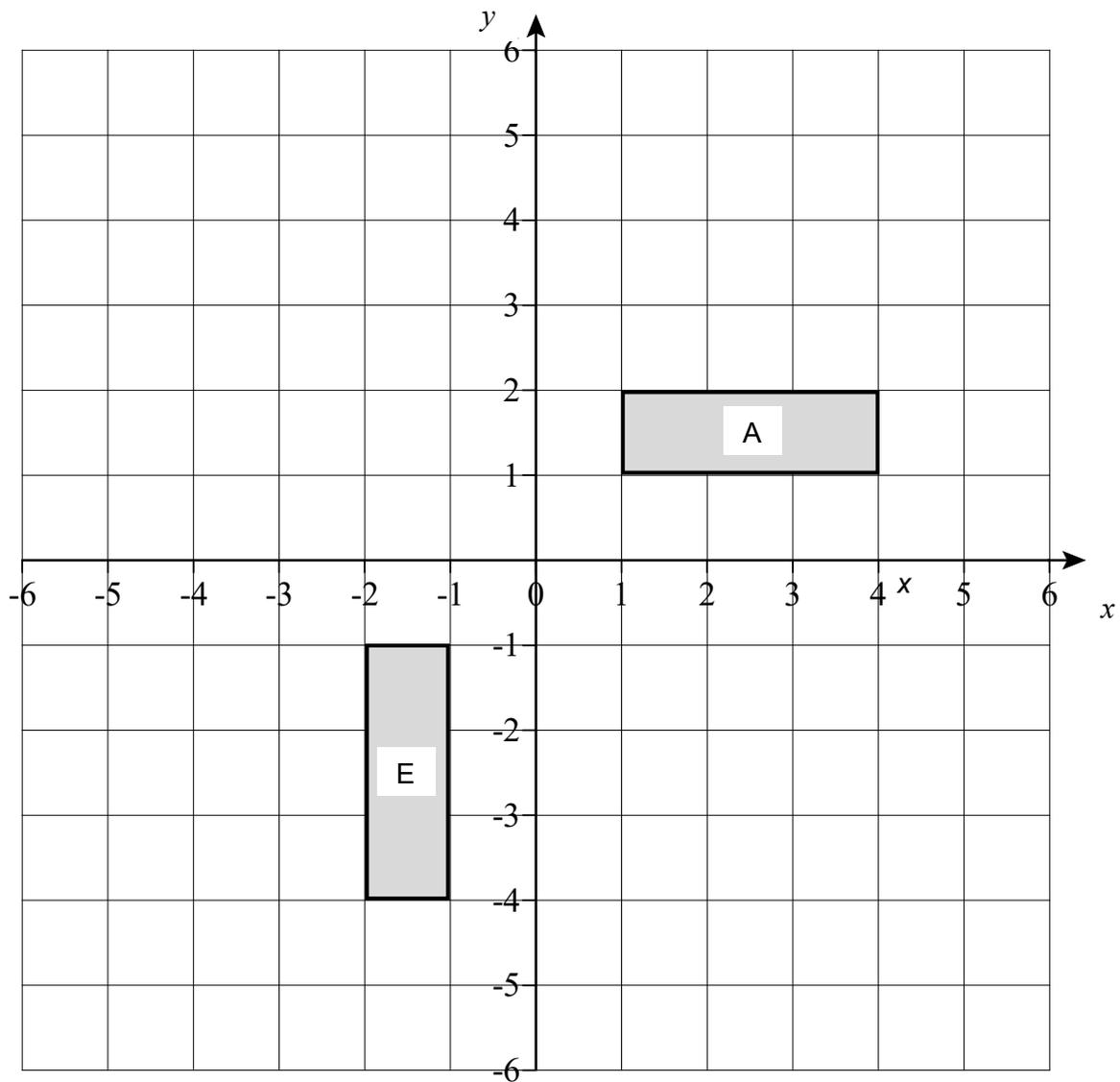
[2 marks]



4 Reflect the shape in the line $y = -1$

[2 marks]





5(a) Translate rectangle A by $\begin{pmatrix} -4 \\ 1 \end{pmatrix}$

Label your answer B.

[1 mark]

5(b) Rotate rectangle A 90° clockwise about the origin.

Label your answer C.

[1 mark]

5(c) Enlarge rectangle A by scale factor 2, centre (2, -2)

Label your answer D.

[2 marks]

5(d) Rectangle A is transformed into shape E by a reflection.

Write down the equation of the mirror line.

[1 mark]

Answer _____

5(e) Shape A can also be transformed to shape E using **two** different transformations.

Write down these two transformations in the correct order.

[2 marks]

Transformation 1: _____

Transformation 2: _____

6 Here are some statements about transformations.

Tick a box to show whether each statement is true or false

[3 marks]

Statement	True	False
The image of a translation is congruent to the original		
The image of an enlargement is congruent to the original		
The only transformations that produce an image congruent to the original are reflections and rotation		