

GCSE Transformations 1: Assessment B

Your Name:

Tutor Group:

End of GCSE target grade:

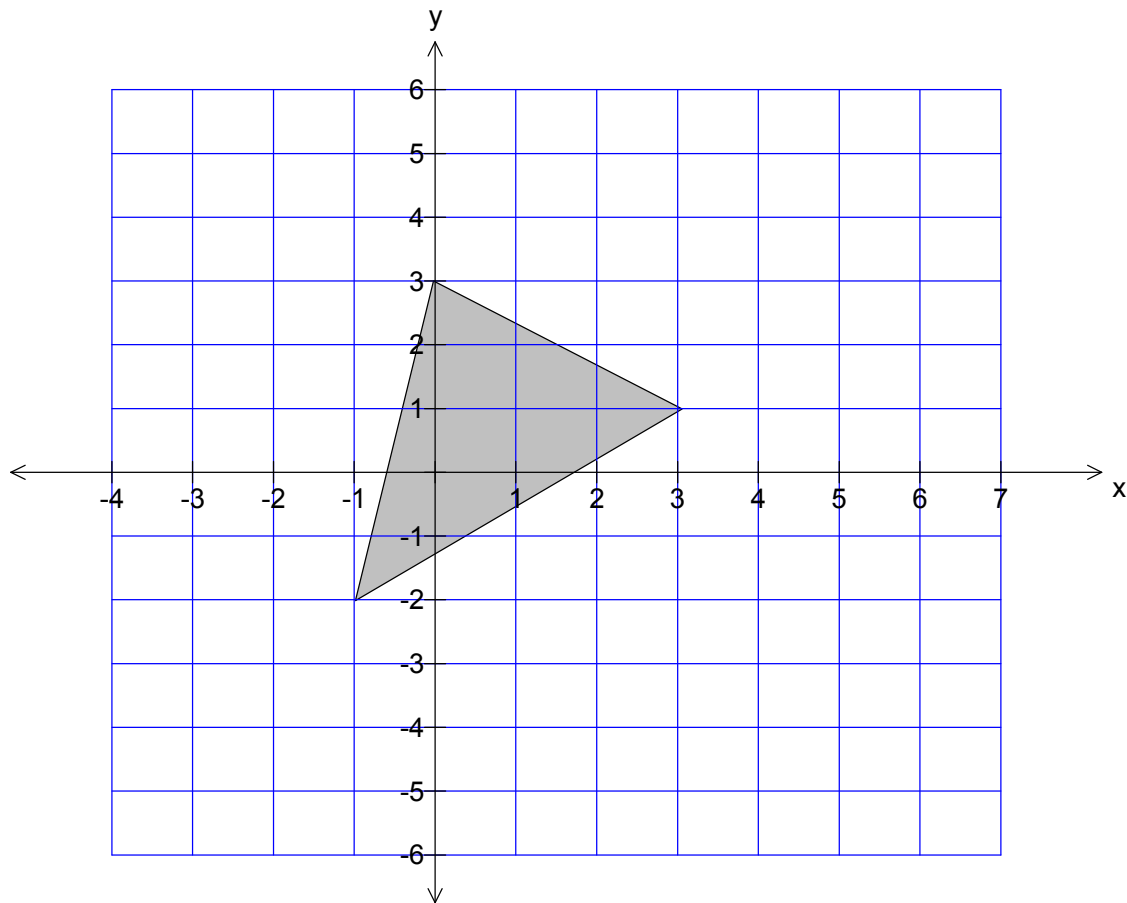
Grade achieved:

Grade D objectives

- I can translate, rotate and reflect a shape.
- I can enlarge a shape by a positive whole number scale factor.

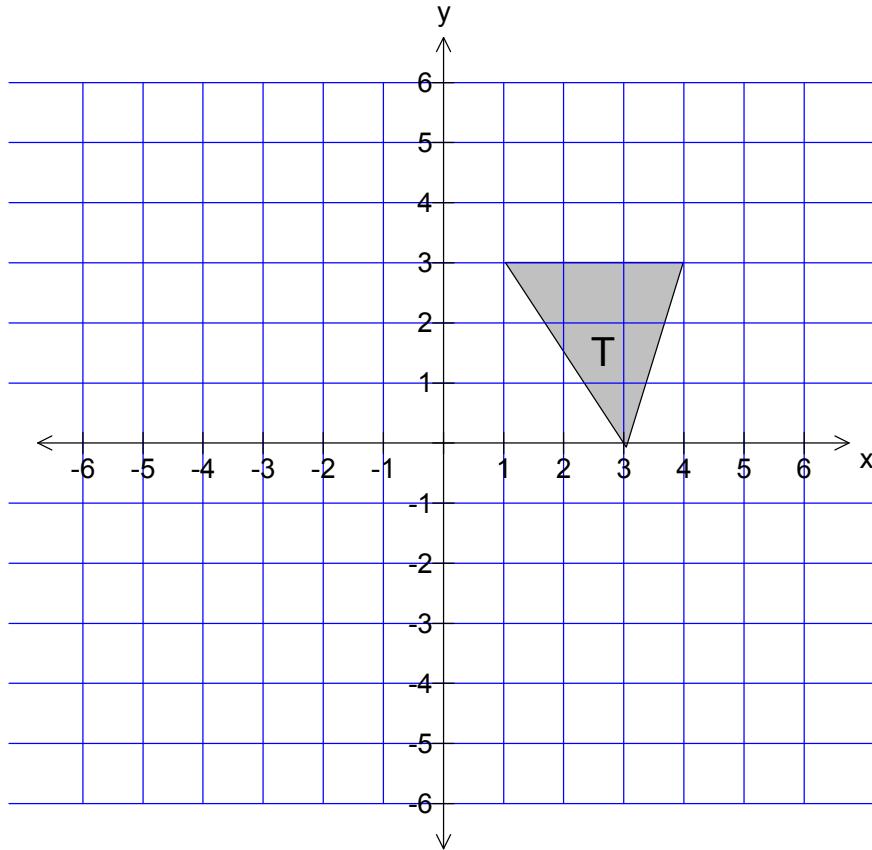


1.



Enlarge the shaded triangle by a scale factor 2, centre (1, 1).

[3]



Triangle **T** has been drawn on the grid.

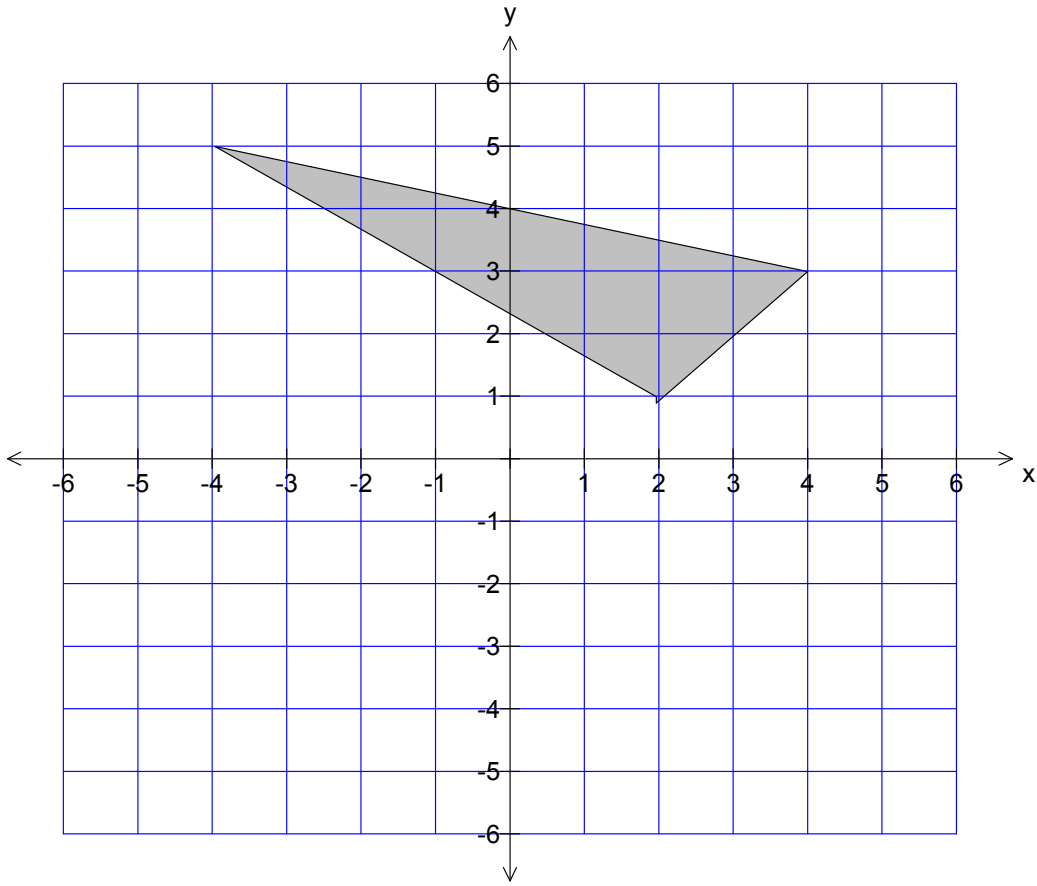
- (a) Reflect triangle **T** in the line $y = -1$.
Label the new triangle **A**. [2]
- (b) Rotate triangle **T** through 90° anticlockwise, centre O .
Label the new triangle **B**. [2]
- (c) Translate triangle **T** using the translation vector $\begin{pmatrix} -1 \\ 3 \end{pmatrix}$.
Label the new triangle **C**. [2]

Grade C objectives

- I can enlarge a shape with a fractional scale factor
- I can describe a single transformation fully.
- I can reflect in diagonal mirror lines

☺	☹	☹

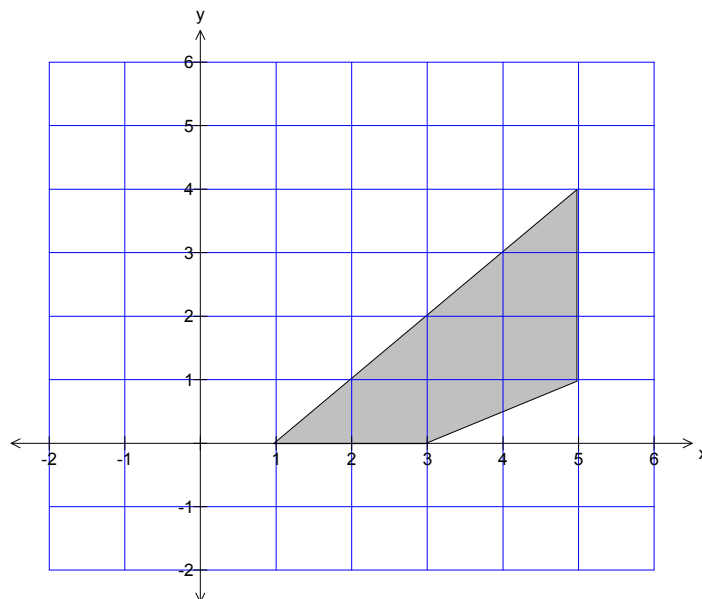
3.



Enlarge the shaded triangle using a scale factor of $\frac{1}{2}$, centre $(0, -3)$.

[2]

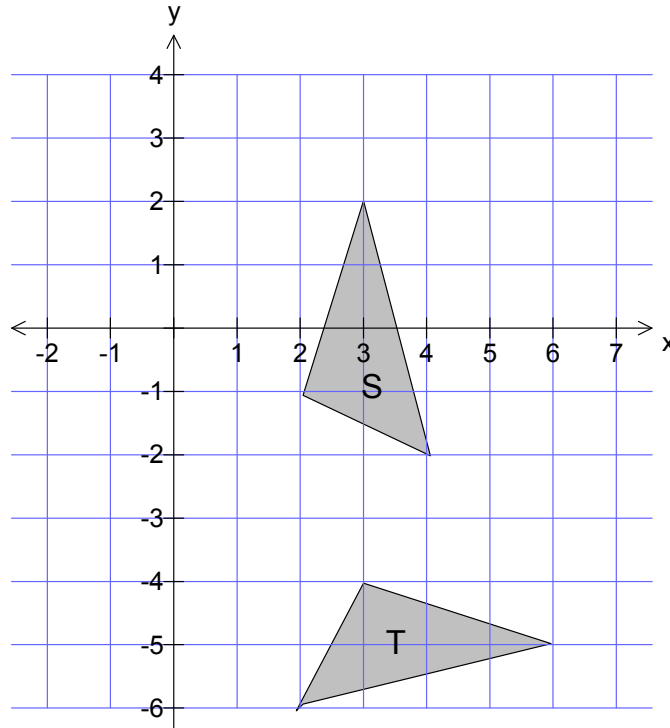
4.



Reflect the shaded quadrilateral in the line $y = x$.

[2]

5.

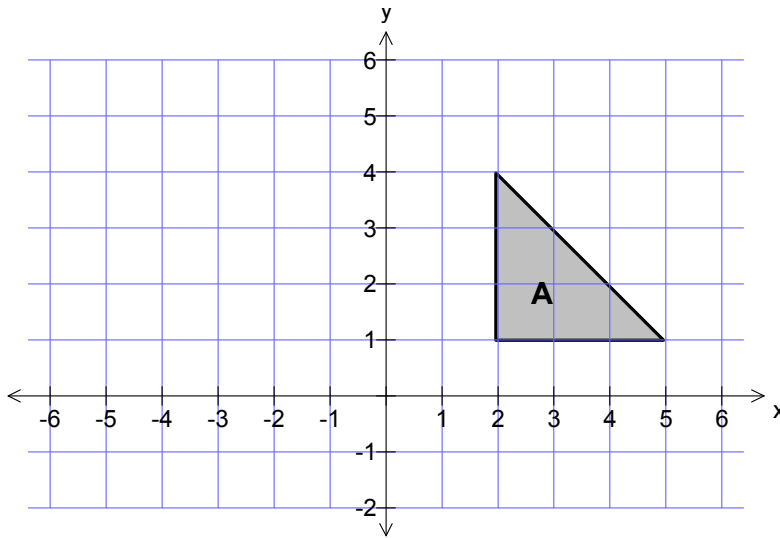


Describe the **single** transformation that maps triangle S onto triangle T.

.....
 [3]

Grade B objectives	☺	☹	☹
<ul style="list-style-type: none"> I can find a single transformation that has the same effect as a combination of 2 transformations. 			

6.



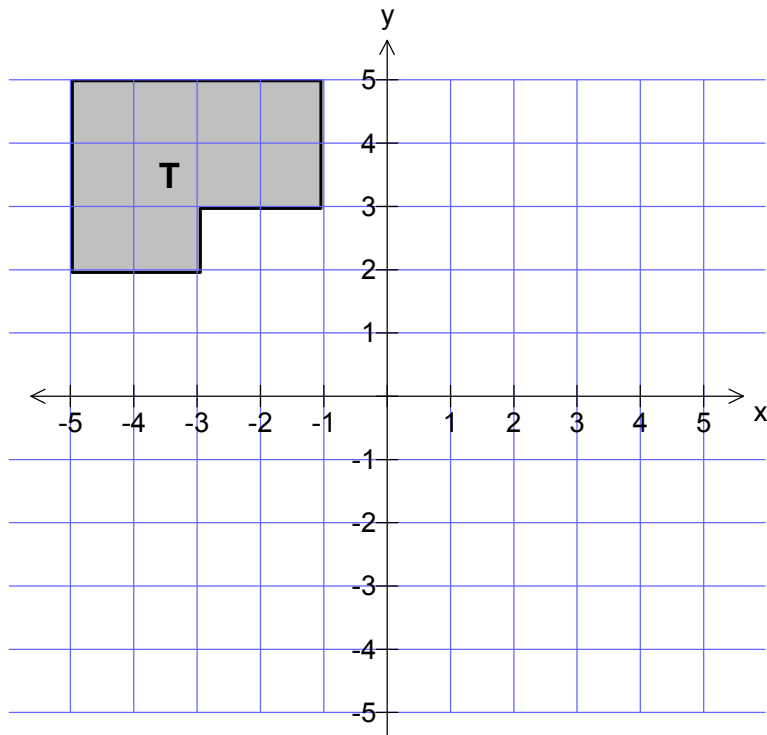
Triangle A is rotated 180° about the point (1, 2) to give triangle B.
 Triangle B is then reflected in the line $y = 2$ to give triangle C.

Describe the single transformation that takes triangle A to triangle C.

..... [2]

Grade A objectives	😊	☹	😞
• I can enlarge a shape with a negative scale factor			
• I can recognise and apply transformation of graphs, such as those represented by: $y = f(x) + a$, $y = f(ax)$, $y = f(x+a)$, $y = f(-x)$, $y = -f(x)$ and $y = af(x)$			

7.



Enlarge shape **T** by scale factor -1.5 with centre of enlargement $(-1, 1)$.

[2]

Teacher feedback:

In order to get to the next grade (or in order to improve the quality of your work) you should...

The following aspect of your work was particularly good ...