

TRANSFORMATIONS

Name:

LITERACY

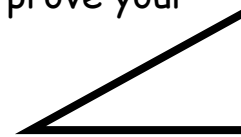
Describe each of the key words below, explain their effect on a shape within a co-ordinate grid:

- Translation
- Reflection
- Rotation
- Enlargement

RESEARCH

What effect would each of the 4 transformations mentioned in the literacy section have on the angles within a triangle?

Draw an example to prove your answer.



MEMORY

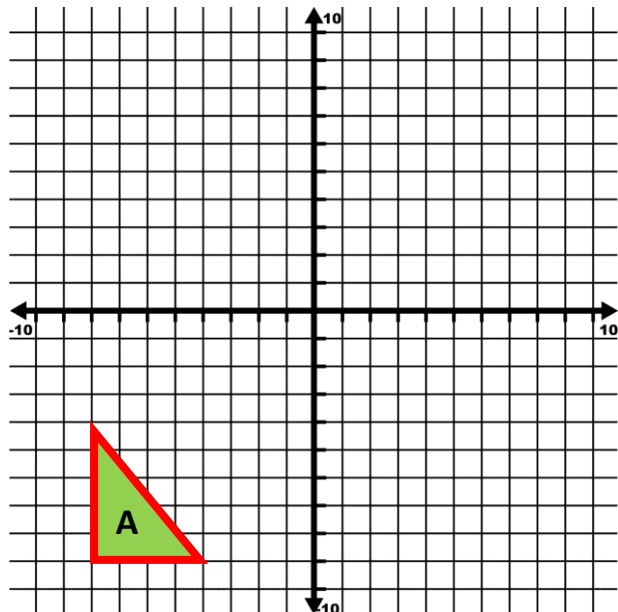
Remember! When enlarging a shape. A scale factor of 2 will double the size of the shape.

A scale factor of 3 will triple the size of the shape.

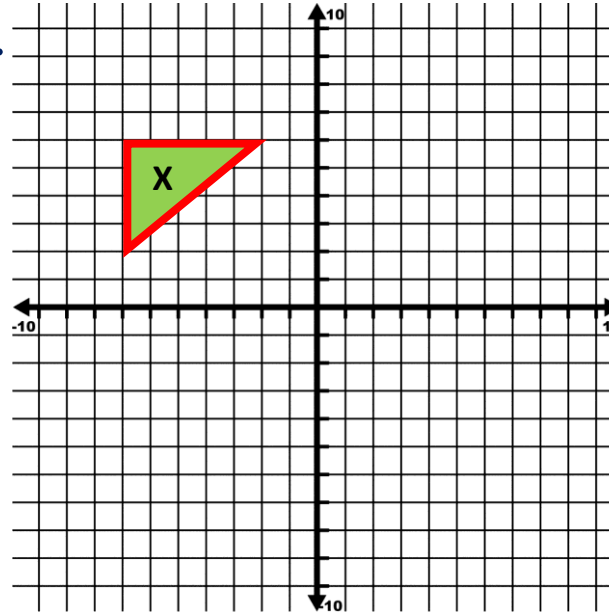
What will scale factor 1/2 do?

SKILL

USE
A
PENCIL!

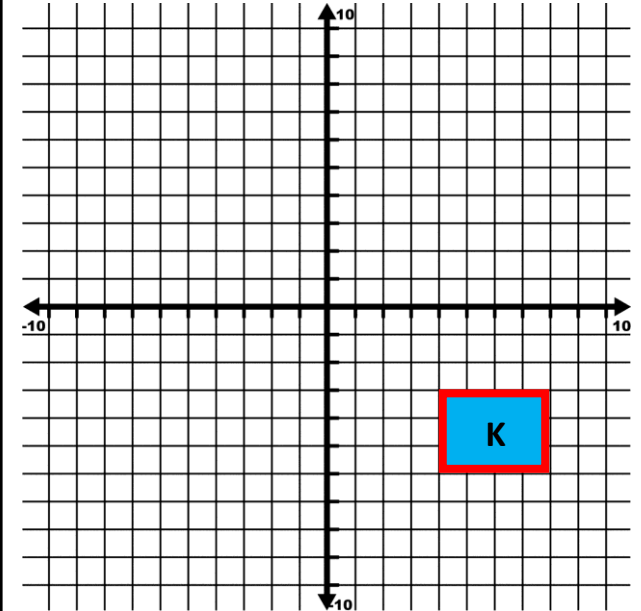


- Translate shape 'A' by the vector $\begin{pmatrix} 9 \\ 12 \end{pmatrix}$
Call this shape 'B'
- Reflect shape 'A' in the line $x = -1$ and call this shape 'C'



- Rotate shape 'X' by 90° Clockwise about the origin. Call this shape 'Y'
- Reflect shape 'X' in the line $y = -2$ and call this shape 'Z'

STRETCH



Enlarge shape 'K' by a scale factor of 3 using $(10, -8)$ as the centre of enlargement.

Due Date: