

Transformations *key words*

ANSWERS

A Fill in the missing words from the word bank.

Word bank

Two words are not needed.

bearing

centre

congruent

direction

enlargement

image

mirror

object

perimeter

reflection

rotation

scale factor

translation

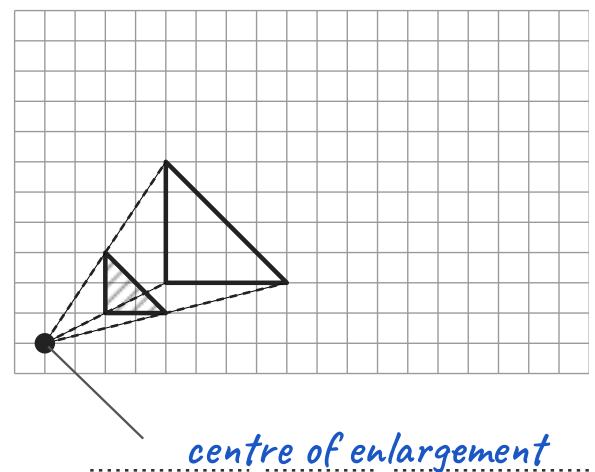
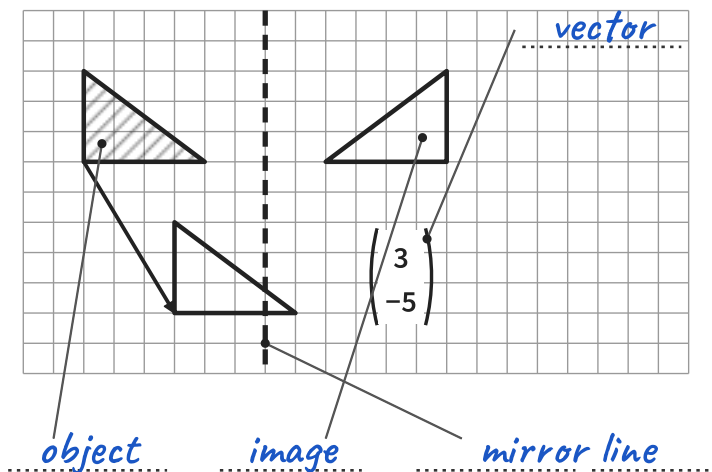
vector

The starting shape is the object and the shape after a transformation is the image. A translation slides a shape, and is described by a column vector: the top number moves it right or left and the bottom number moves it up or down.

A reflection flips a shape in a mirror line. A rotation turns a shape about a centre: to describe it, give the angle and the direction, clockwise or anticlockwise.

An enlargement changes the size of a shape, and its scale factor tells you how many times longer each side gets. After a translation, reflection or rotation the image is congruent to the object: the same shape and the same size.

B Label the diagram. No word bank this time. Each label gives the first letter.



C Each sentence uses the wrong key word. Cross it out and write the right word.

1 A rotation slides a shape without turning it.

translation

2 A reflection makes a shape bigger or smaller.

enlargement

3 The shape before a transformation is the image.

object

4 To describe a rotation, give the angle, the direction and the vector.

centre