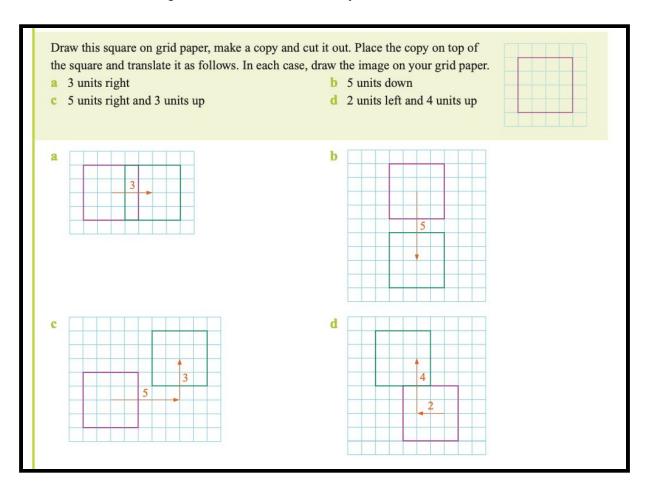
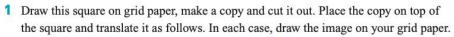
**Walt** understand translation and recognise the movements and translate a shape

**Success criteria** I can use the grid paper to count and translate the shape from its original position

## **Translation**

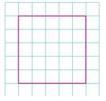
A translation is a sliding movement. It can be in any direction

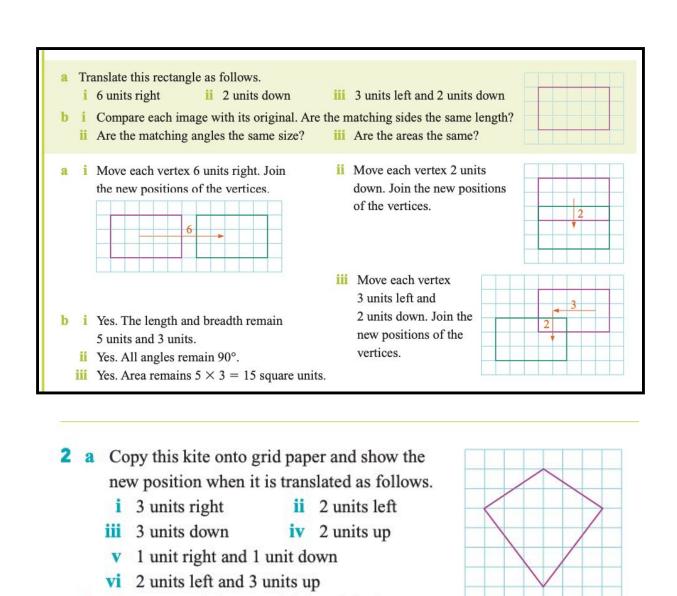


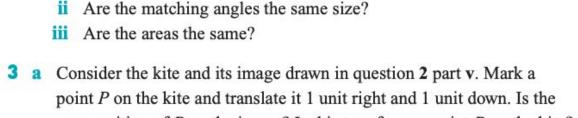


a 4 units right

- **b** 3 units down
- c 4 units right and 3 units down
- d 3 units left and 2 units up



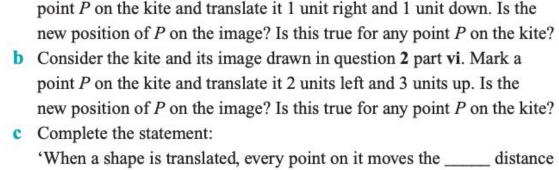




**b** Compare each image with its original.

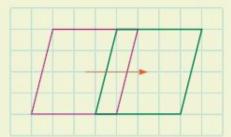
in the \_\_\_\_ direction'.

i Are the matching sides the same length?

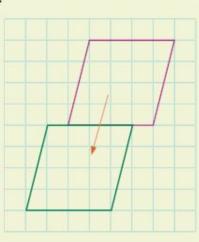


## Describe the following transformations.

2



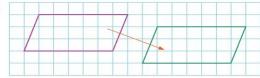
b



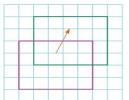
Look at each vertex of the shape and relate it to its new position.

- Each vertex has been translated 3 units right. The parallelogram has been translated 3 units right.
- b Each vertex has been translated 2 units left and 4 units down. The parallelogram has been translated 2 units left and 4 units down.
- 4 Describe the following transformations.

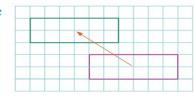
a



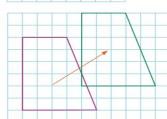
b



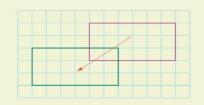
C



d



- a Describe this transformation.
- **b** What transformation is needed to move the image back to its original position?



- a The rectangle has been translated 4 units left and 2 units down.
- b The image needs to be translated 4 units right and 2 units up to return to its original position.
- 5 For each of the transformations shown in question 4, what transformation is needed to move the image back to its original position?