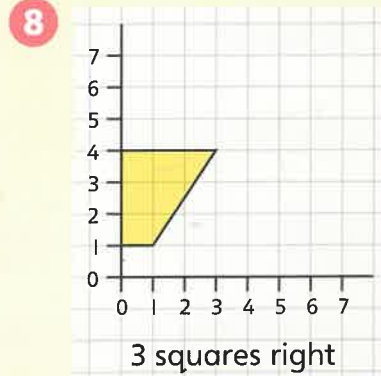
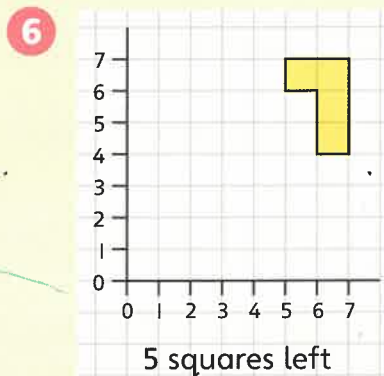
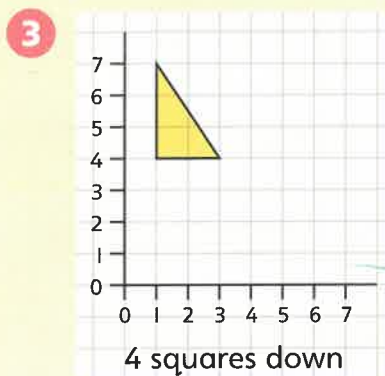
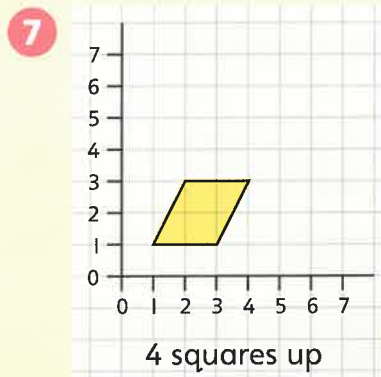
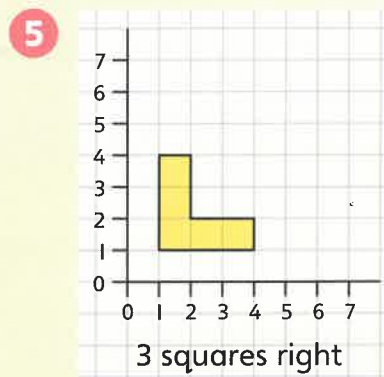
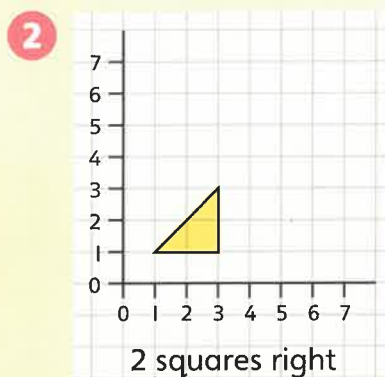
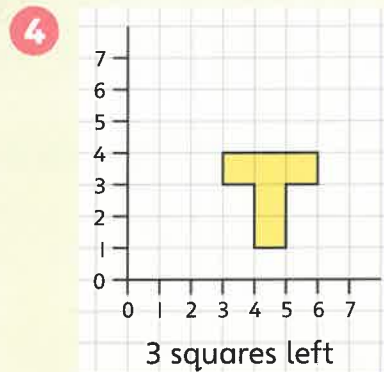
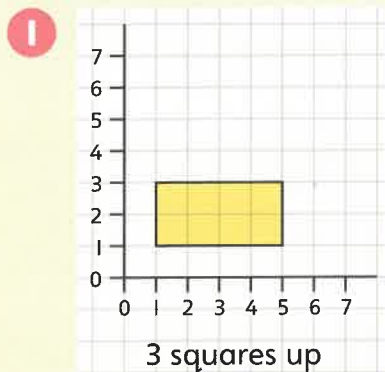


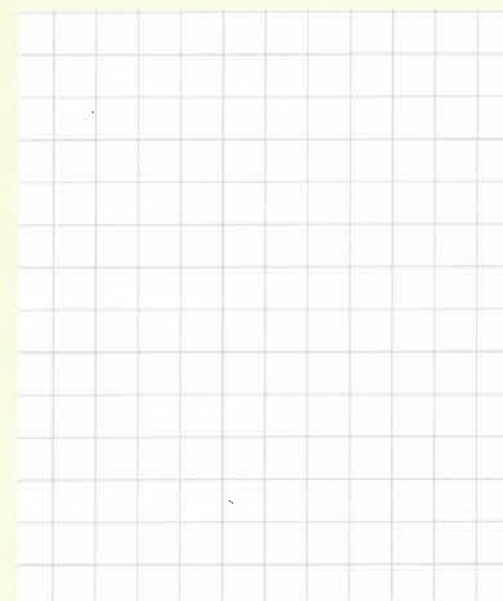
Translations and reflections

Write the coordinates of each shape. Follow the instructions. Write the new coordinates of the vertices.



Follow these instructions. What happens to the shapes?

- 1 Draw a coordinate grid on cm squared paper. Mark both axes with numbers from 0 to 12.
- 2 Mark the points (1,1), (2,4), (4,4) and (5,1) and join them. What shape does it make?
- 3 Add 3 to each of the y-coordinates given above. Write the four new pairs of coordinates.
- 4 Use a coloured pen or pencil to mark the new points on your grid and join them. What happens?
- 5 Add 2 to the x-coordinates of your answers to question 3.
- 6 Use a different coloured pen or pencil to mark on the new points and join them. Describe what happens to the shape now.



Draw a kite with the coordinates (2,1), (1,3), (3,3) and (2,4). Add 2 to all the y-coordinates and add 1 to all the x-coordinates. What happens to the kite?



Write some rules explaining how to translate shapes. How do you move a shape up? How do you move a shape across?



I am confident with using coordinates and translating shapes.



I am confident with translating shapes.