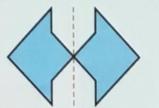
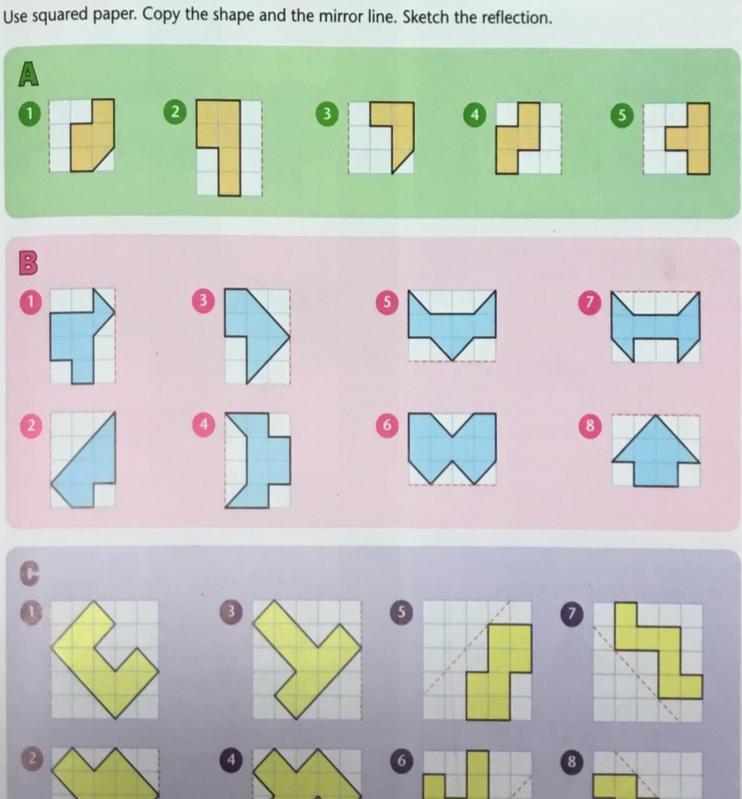
TARGET To identify and sketch the position of a shape following a reflection.

Examples







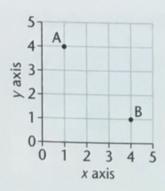
TARGET

To plot co-ordinates, to draw a shape and to predict its position following a reflection.

The position of a point on a grid is given by its x and y co-ordinates.

Examples

Point A is (1, 4).
Point B is (4, 1).
Remember:
The x co-ordinate always comes

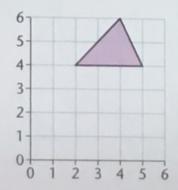


Example

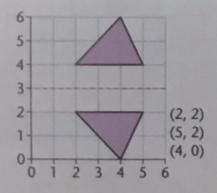
first.

Plot the following points and join up in the order given to form a triangle.

(2, 4) (4, 6) (5, 4) (2, 4)



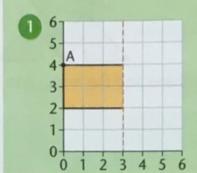
Sketch the reflection of the shape in a mirror line from (0, 3) to (6, 3). Give the co-ordinates of the reflected shape.

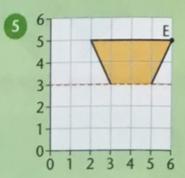


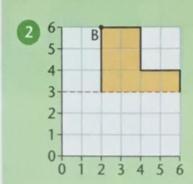
A

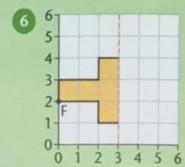
Use squared paper.

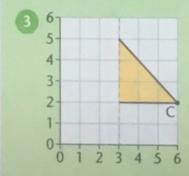
Copy the grid, the shape and the mirror line. Sketch the reflection.

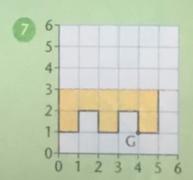


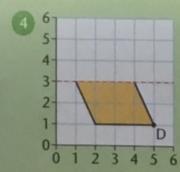


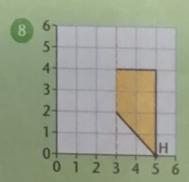








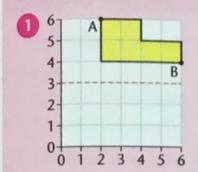


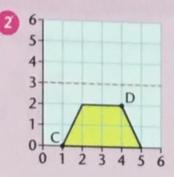


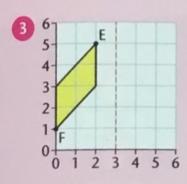
- 9 Give the co-ordinates of points A-H:
 - a) in the above shapes
 - b) in the reflected shapes.

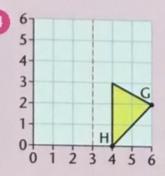
8

Copy the grid, the shape and the mirror line. Sketch the reflection.









- Give the co-ordinates of points A-H:
 - a) in the above shapes
 - b) in the reflected shapes.

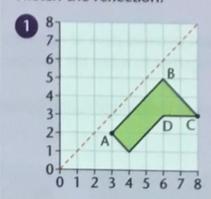
Plot the co-ordinates for each of the following on a 6×6 grid and join them up in the order given to form a shape. Draw the mirror line and sketch the reflection.

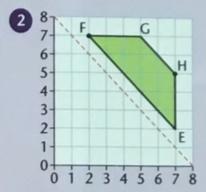
- 6 (3, 4) (1, 6) (4, 6) (6, 4) (3, 4) Mirror line (0, 3) to (6, 3)
- (0, 0) (0, 1) (2, 1) (2, 2) (3, 2) (3, 1) (4, 1) (4, 0) (0, 0) Mirror line (0, 3) to (6, 3)
- (3, 1) (1, 1) (0, 3) (1, 5) (2, 5) (2, 1) Mirror line (3, 0) to (3, 6)
- (4, 6) (6, 4) (5, 2) (4, 2) (4, 6) Mirror line (3, 0) to (3, 6)
- (0, 6) (4, 6) (3, 5) (3, 4) (1, 4) (1, 5) (0, 6) Mirror line (0, 3) to (6, 3)

C

Copy the grid, the shape and the mirror line.

Sketch the reflection.





- 3 Give the co-ordinates of points A-H:
 - a) in the above shapes
 - b) in the reflected shapes.

Plot the co-ordinates on an 8×8 grid and join them up in the order given to form a shape. Draw the mirror line and sketch the reflection.

- 4 (3, 2) (6, 5) (7, 4) (7, 1) (4, 1) (3, 2) Mirror line (0, 0) to (8, 8)
- 5 (1, 2) (1, 6) (3, 6) (5, 8) (5, 6) (1, 2) Mirror line (0, 0) to (8, 8)
- 6 (2, 8) (8, 8) (8, 2) (6, 4) (6, 6) (4, 6) (2, 8) Mirror line (0, 8) to (8, 0)
- 7 (1, 1) (1, 3) (0, 4) (0, 6) (1, 6) (6, 1) (6, 0) (4, 0) (3, 1) (1, 1) Mirror line (0, 8) to (8, 0)