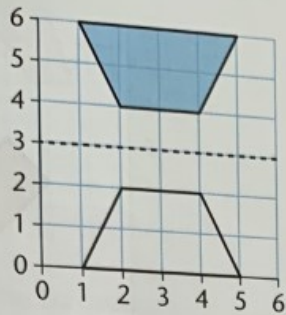


TARGET To reflect a shape on the first quadrant of the co-ordinate grid.

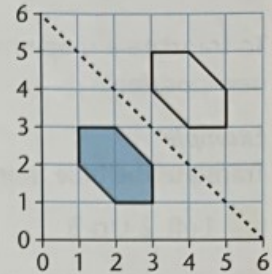
Example

- 1 The blue trapezium is reflected in a mirror line (0, 3) to (6, 3).



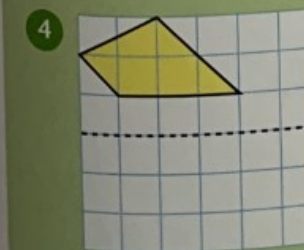
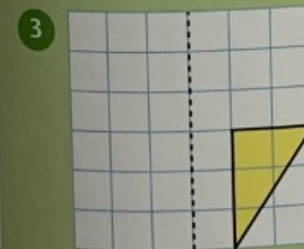
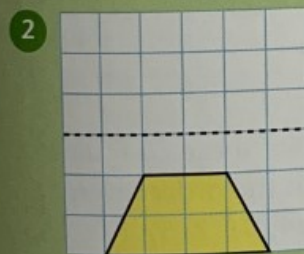
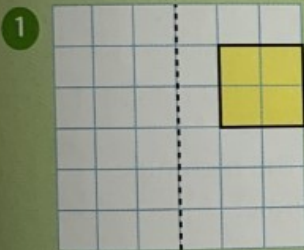
- 2 Reflect the blue hexagon in the mirror line. Give the co-ordinates of the reflection.

Answer (3, 4) (3, 5) (4, 5) (5, 4) (5, 3) (4, 3)



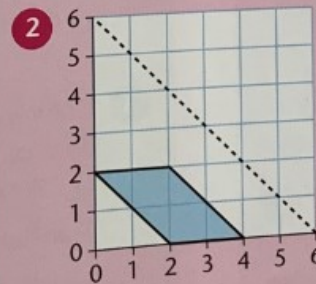
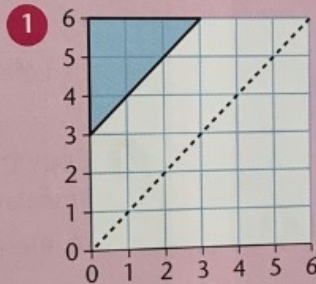
A

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



B

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

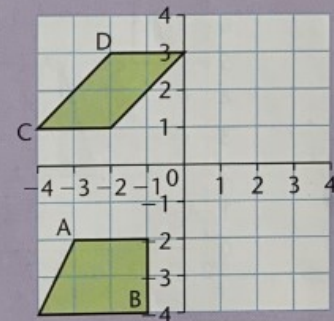


Plot these co-ordinates on a 6×6 grid and join them up in the order given to form a shape. Draw the mirror line and sketch the reflection.

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

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

C



- 1 Copy the above grid and the trapezium. Sketch the reflection:
a) in the x axis
b) in the y axis
c) in a mirror line $(-4, 4)$ to $(4, -4)$
- 2 Copy the above grid and the parallelogram. Sketch the reflection:
a) in the x axis
b) in the y axis
c) in a mirror line $(-4, -4)$ to $(4, 4)$
- 3 For each of the points A-D in the above shapes give the co-ordinates of its position:
a) in the original shape
b) in each reflection.