

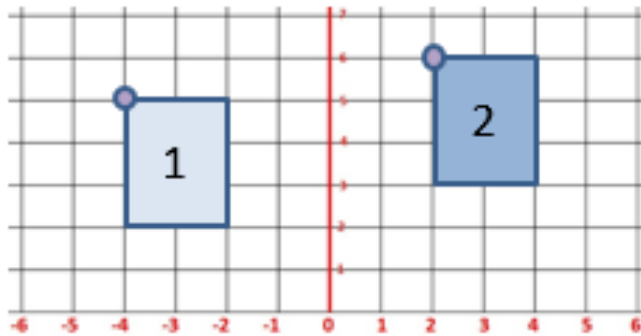
27.01.21

L.O. To correctly identify the translation that a shape has moved through.

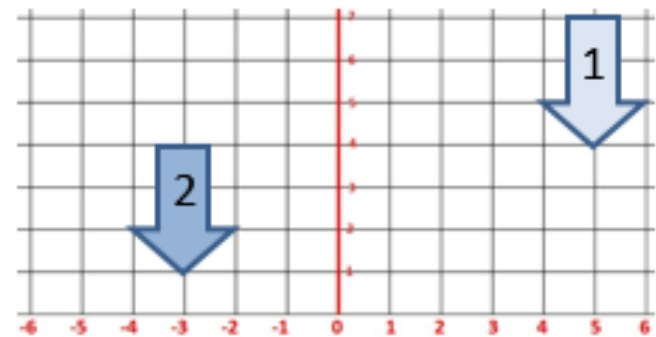
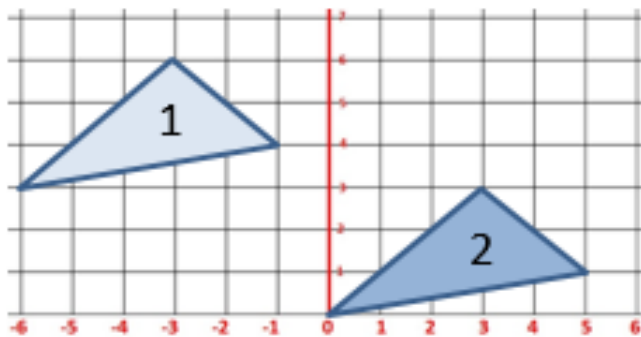
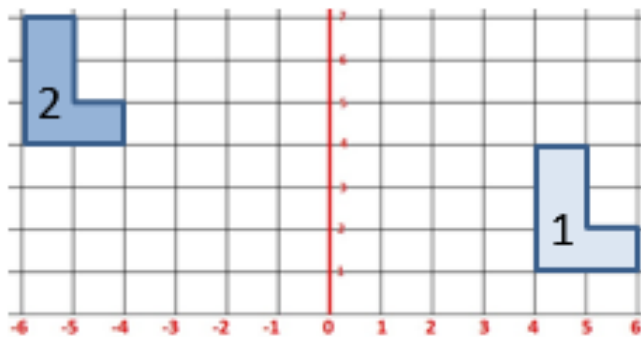
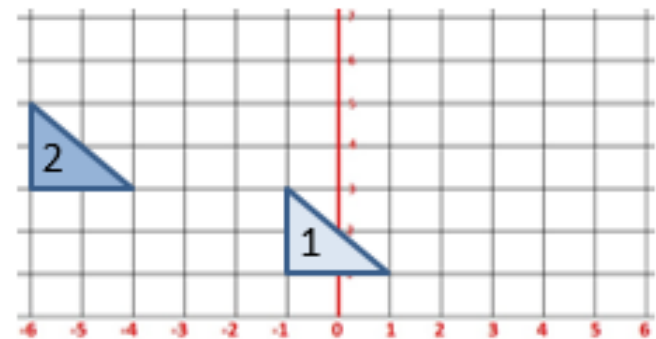
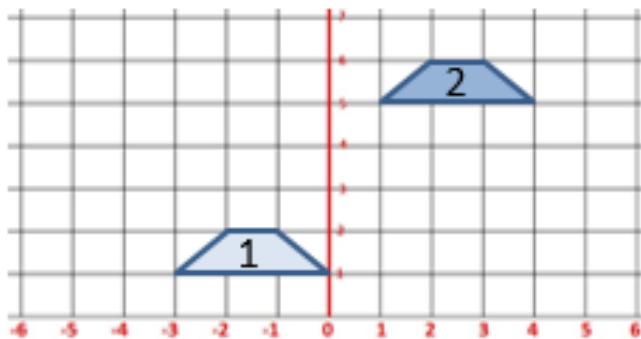
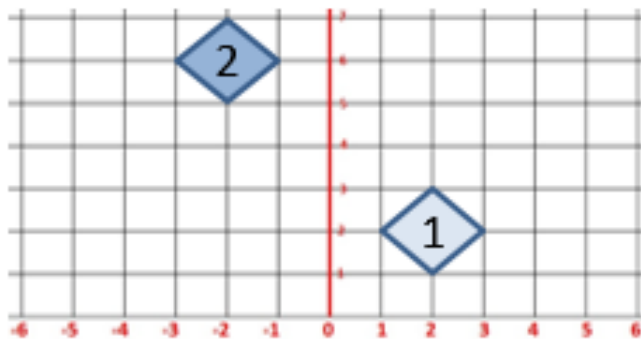
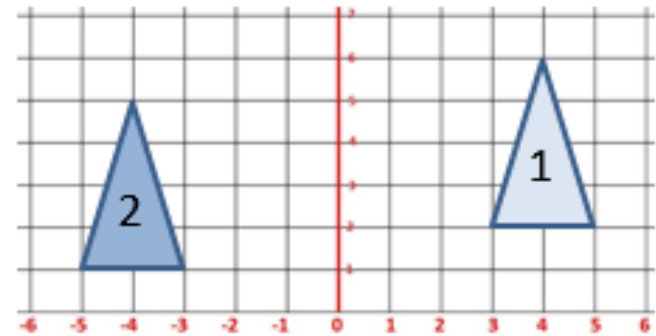
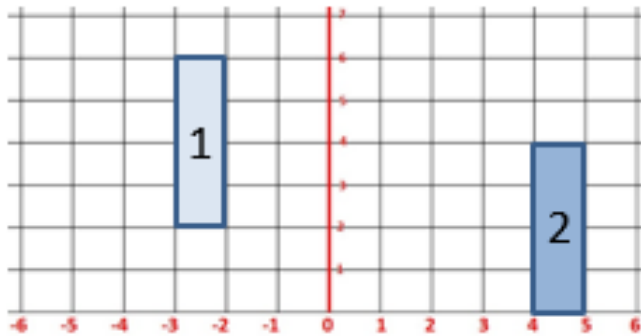


L ← → R

L.O: To explain how a shape has been translated

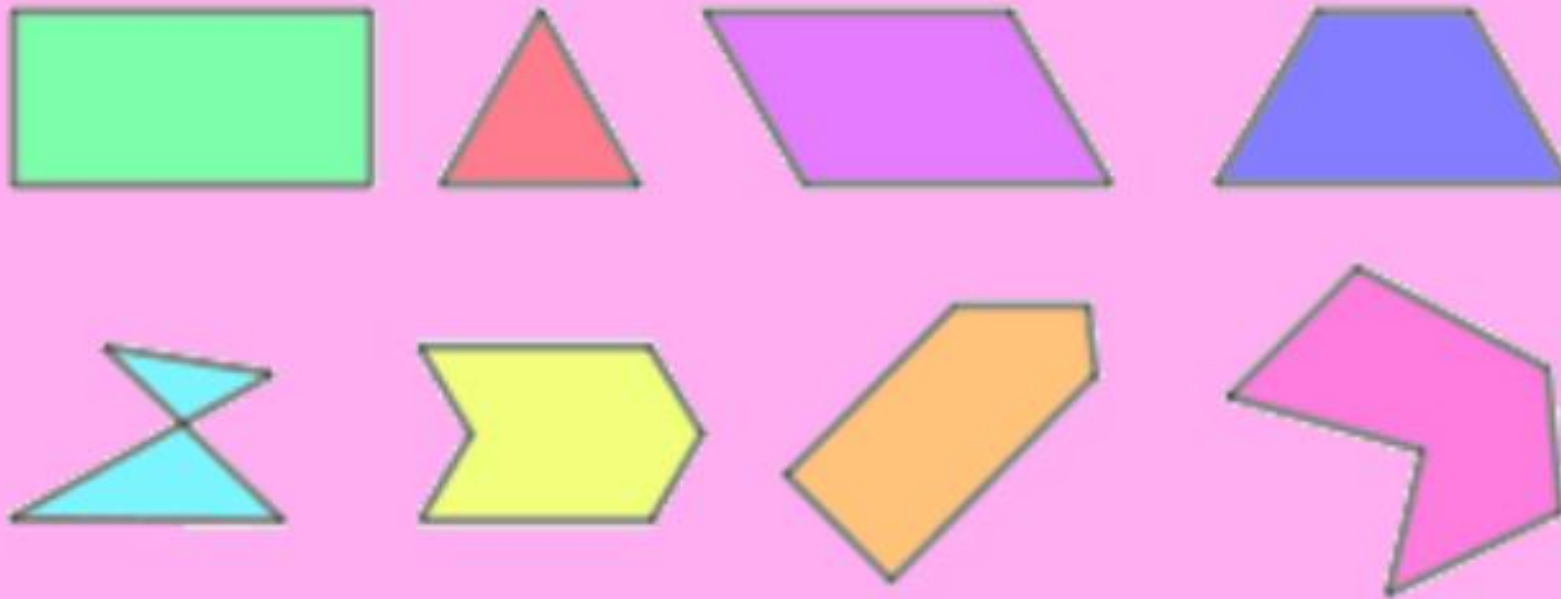


First of all, choose one corner on the first shape.
After that, identify the same corner on the translated shape.
Finally, explain how it's been translated. **This one is R6, U1.**

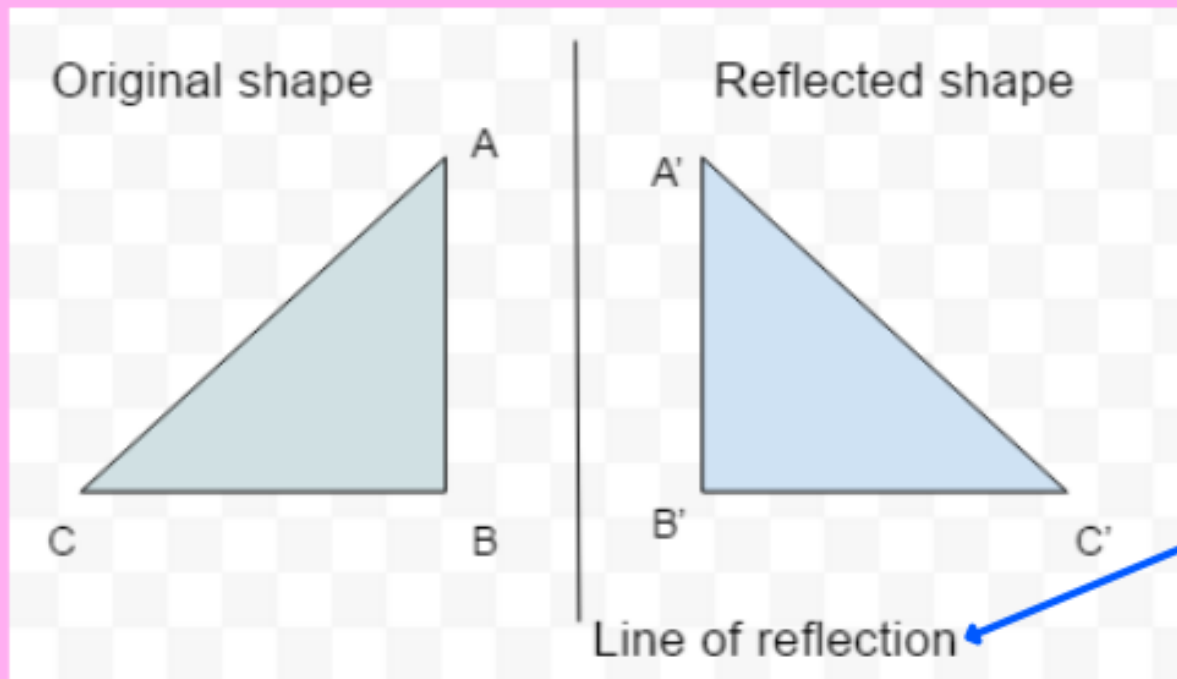


27.01.21

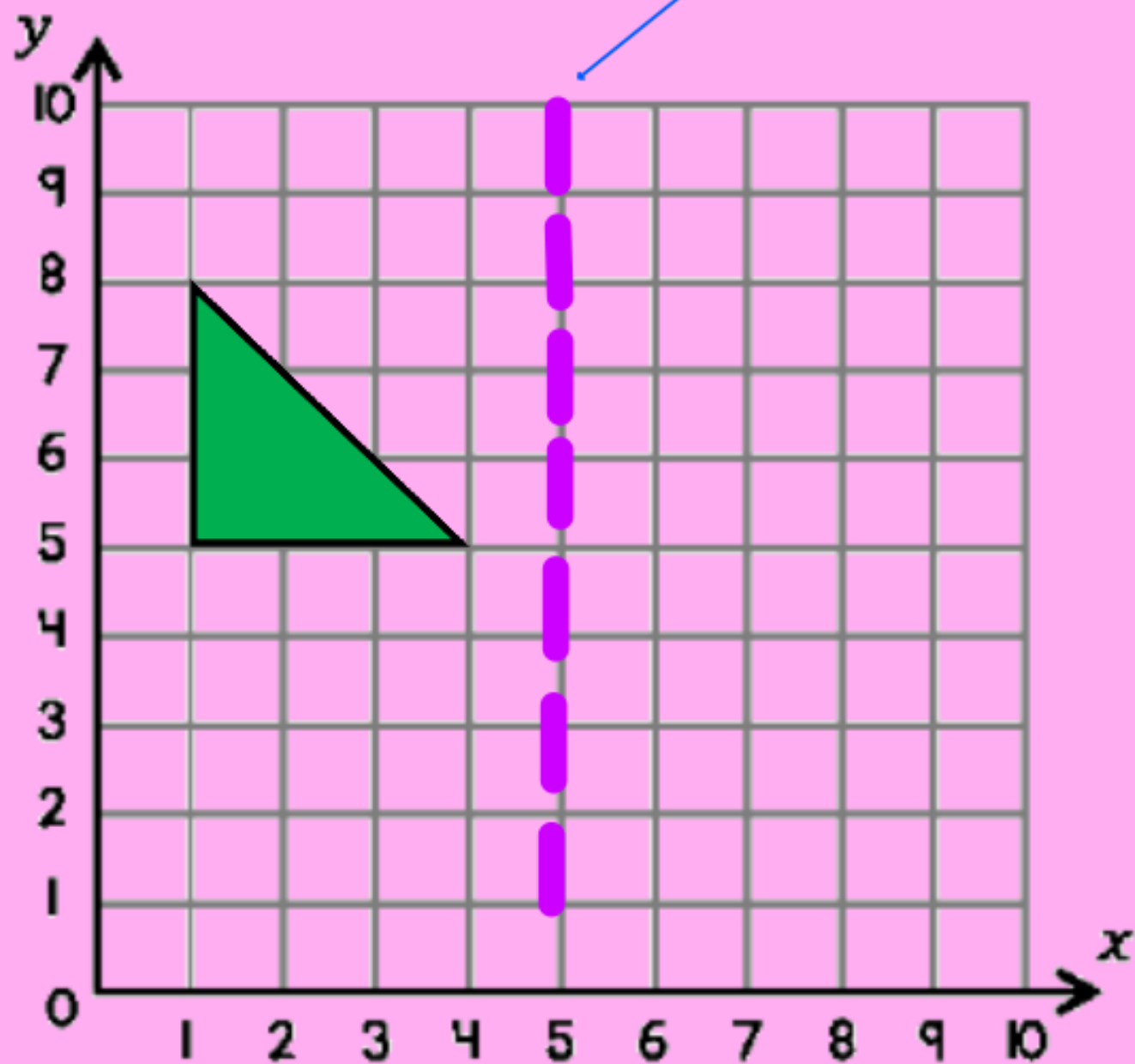
L.O. Reflecting shapes on quadrant.



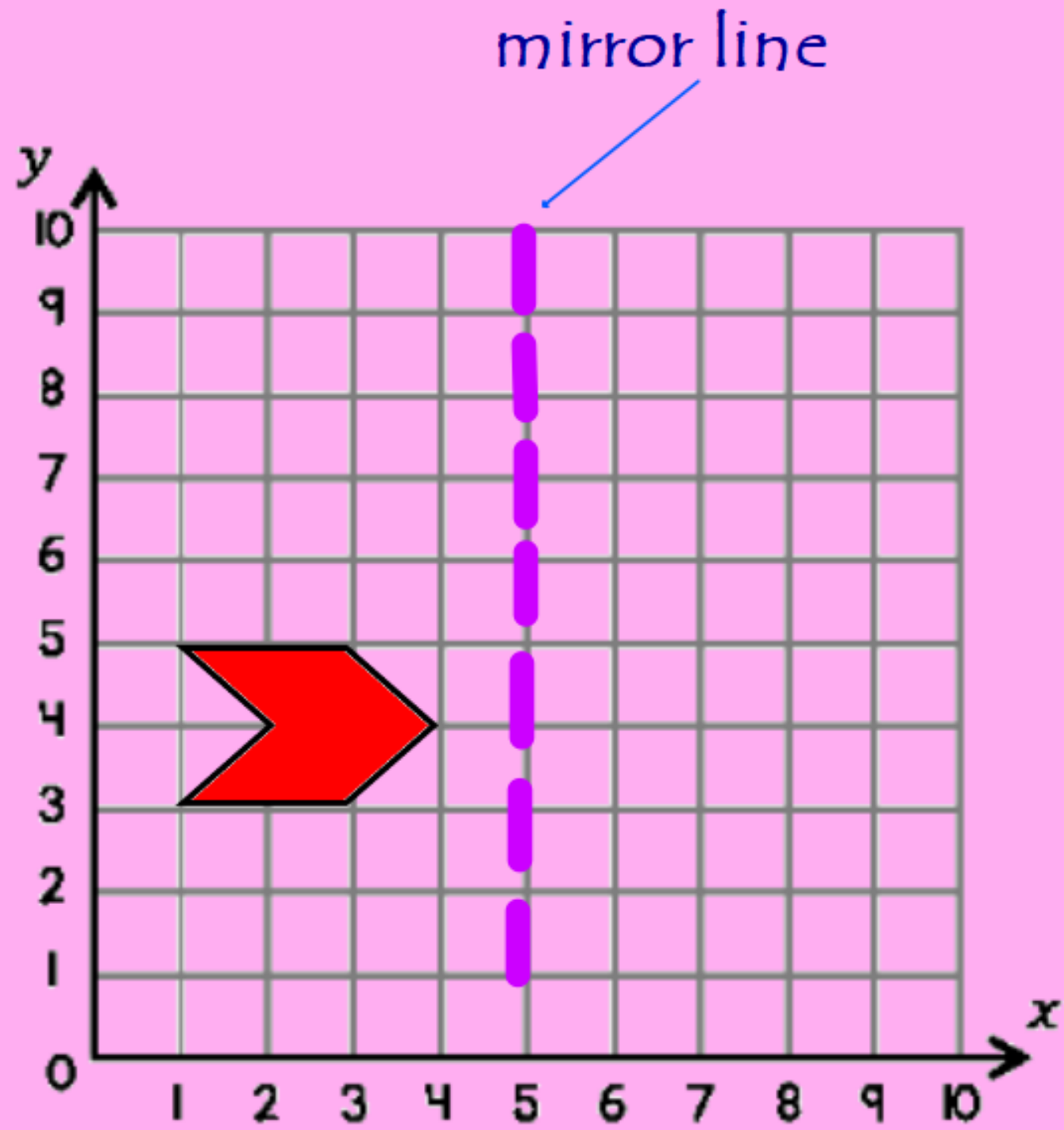
What is a reflection?



We also
call this
'the
mirror
line'



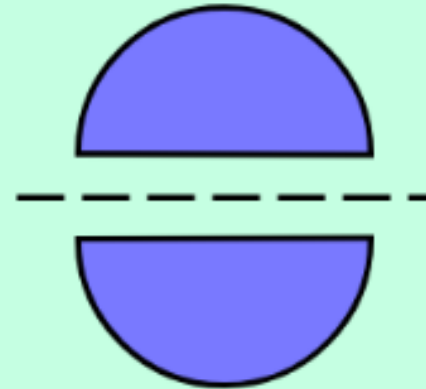
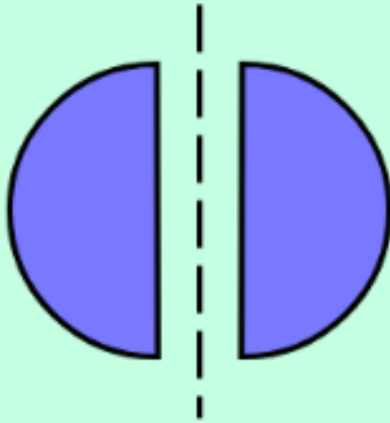
Top tip!
Do each
vertex
separately.
then join
them up!

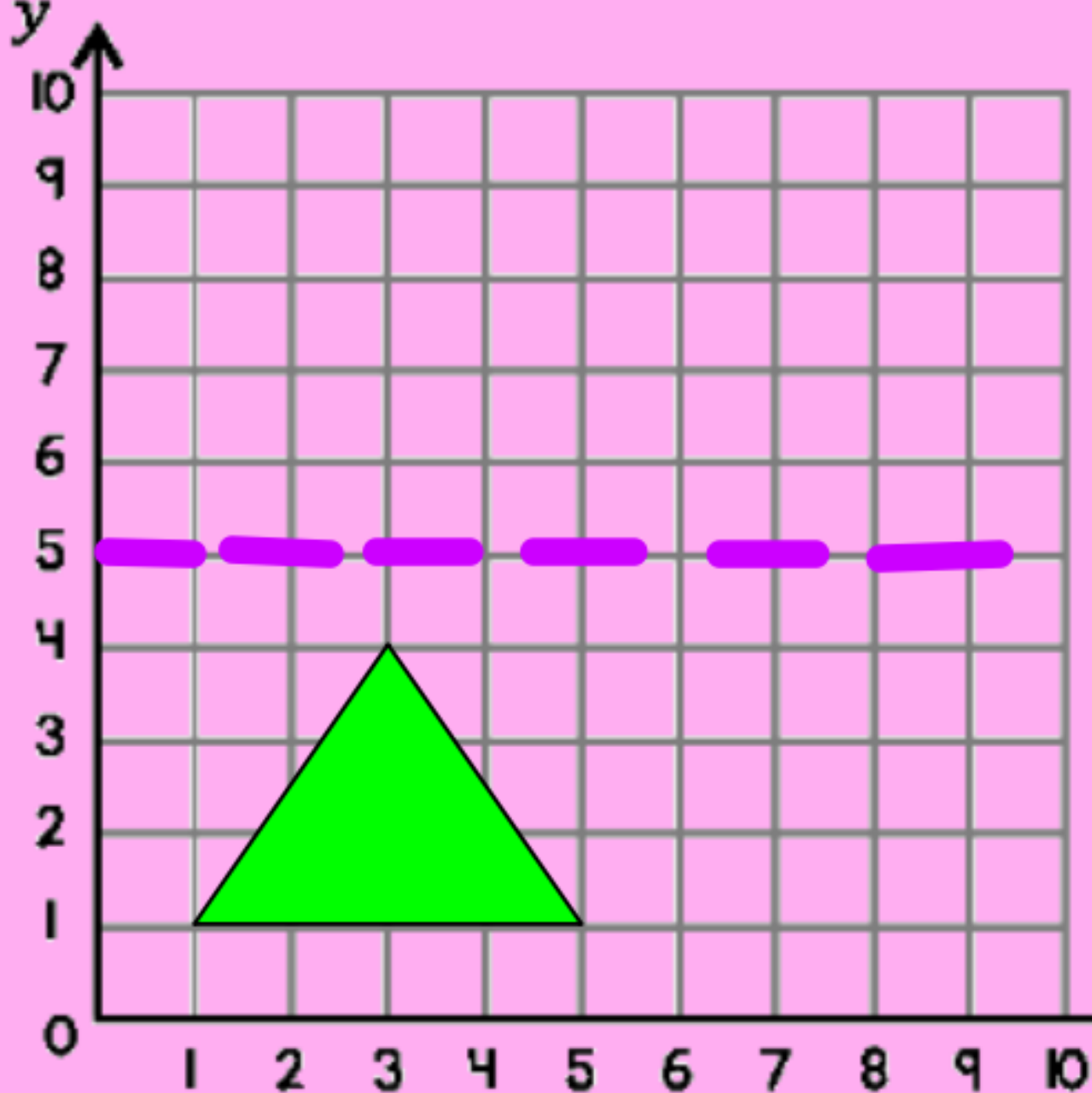


Top tip!

Reflective Symmetry

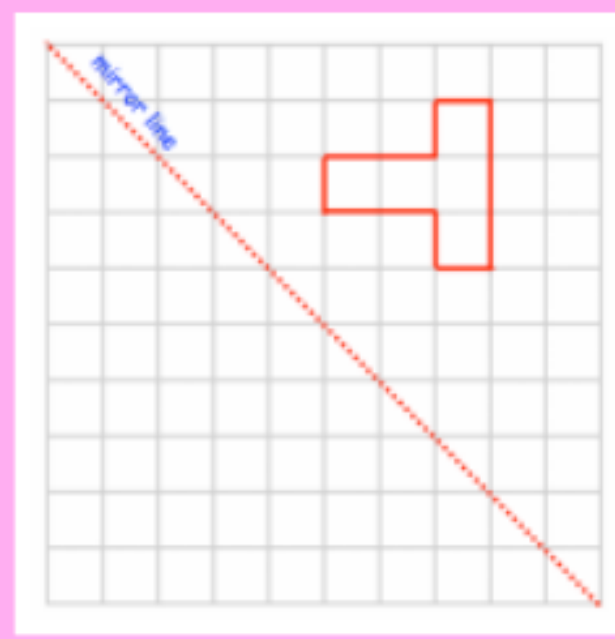
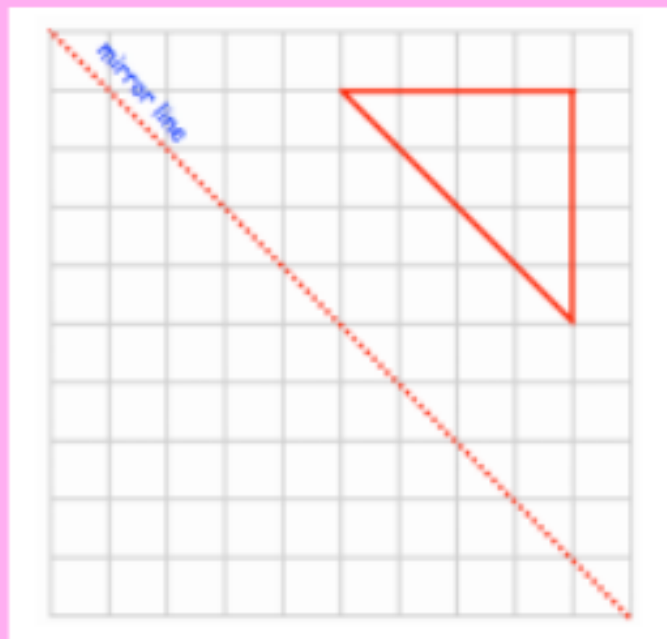
When looking at reflective symmetry, always hold the drawing up vertically, with the line of symmetry vertical.



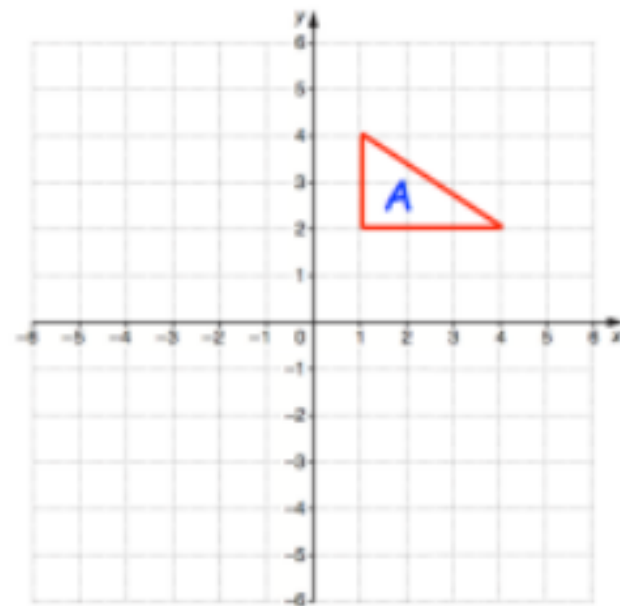


Don't forget
to rotate if
you are using
a mirror!

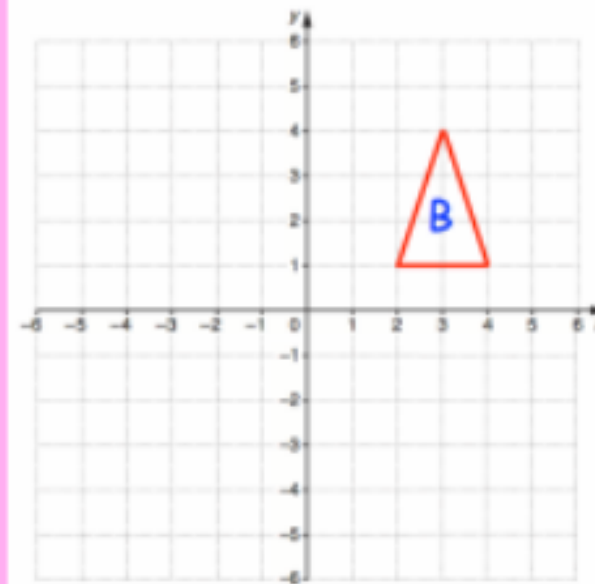
What are the
co-ordinates
of the
reflection?



Reflect triangle A in the x-axis

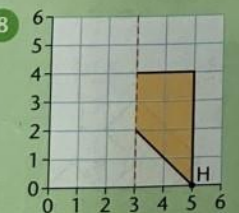
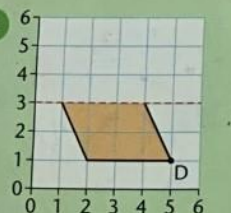
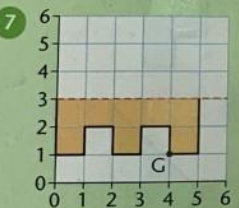
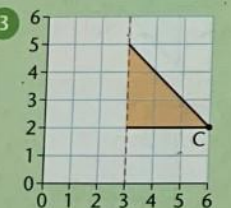
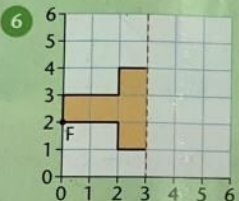
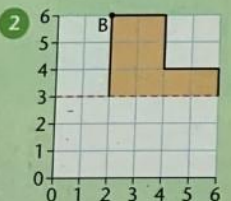
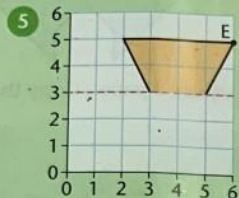
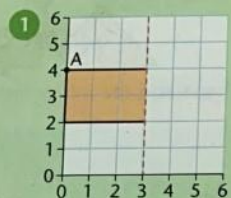


Reflect triangle B in the y-axis



A

Use squared paper.
Copy the grid, the shape and the mirror line.
Sketch the reflection.

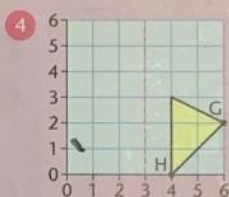
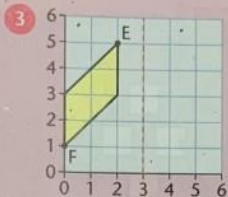
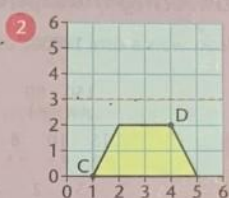
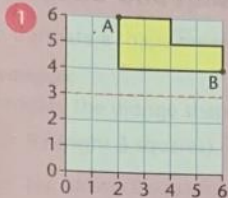


9 Give the co-ordinates of points A–H:

- in the above shapes
- in the reflected shapes.

B

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



5 Give the co-ordinates of points A–H:

- in the above shapes
- 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)

7 (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)

8 (2, 1) (1, 1) (0, 3) (1, 5) (2, 5) (2, 1)

Mirror line (3, 0) to (3, 6)

9 (4, 6) (6, 4) (5, 2) (4, 2) (4, 6)

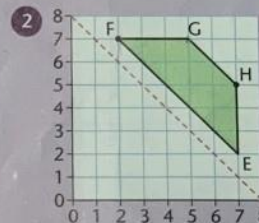
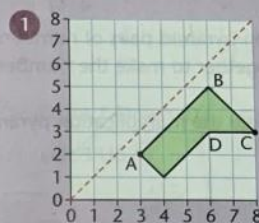
Mirror line (3, 0) to (3, 6)

10 (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:

- in the above shapes
- 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)

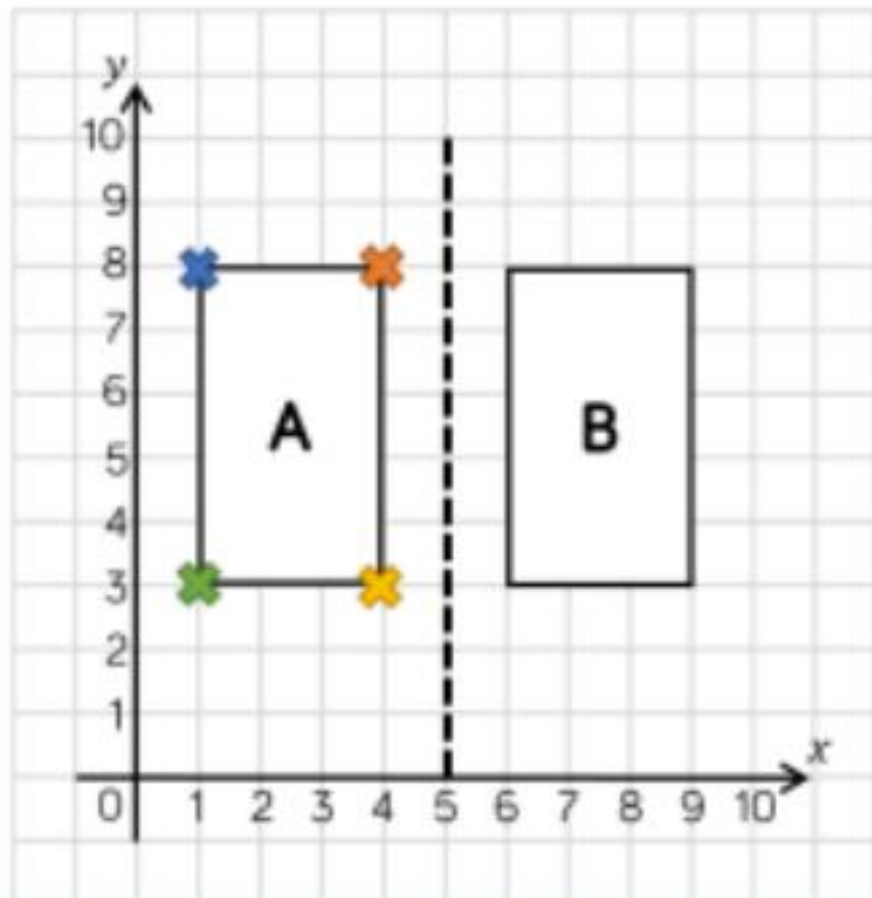
Mirror line (0, 8) to (8, 0)

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)

Class Challenge!

Object A is reflected in the mirror line to give image B.
Write the coordinates of the vertices for each shape.



	Original Coordinate	Reflected Coordinate
