

- 1) This shape is reflected in the y-axis.
- **a)** Draw the reflection of the shape.
- **b)** Give the coordinates of the reflected shape.
- 2) The original shape is now reflected in the x-axis.
- **a)** Draw the reflection of the shape.
- **b)** Give the coordinates of the reflected shape.

- 3) This shape is translated two squares to the left and then reflected in both axes.
- **a)** Draw the translated shape, after it has been reflected in the y-axis.
- **b)** Give the coordinates of this shape.
- c) Draw the translated shape, after it has been reflected in the x-axis.
- **d)** Give the coordinates of this shape.















- a) In one of the quadrants on the grid, draw a shape with between 6 and 8 vertices.
  Label one of the vertices as A and give its coordinates.
- **b)** Reflect your shape in the x-axis and draw the reflection.
- c) Reflect your original shape in the y-axis and draw the reflection.
- **d)** Give the new coordinates of vertex A for both of your reflected shapes. Explain what you notice about the coordinates.

- **a)** In one of the quadrants on the coordinate grid, draw a letter from the alphabet using only straight lines.
- **b)** Reflect that letter in the y-axis, then in the x-axis.
- c) Explain what you notice about the letter you have chosen.
- **d)** Investigate which letters do not change after reflecting them in both axes.

