



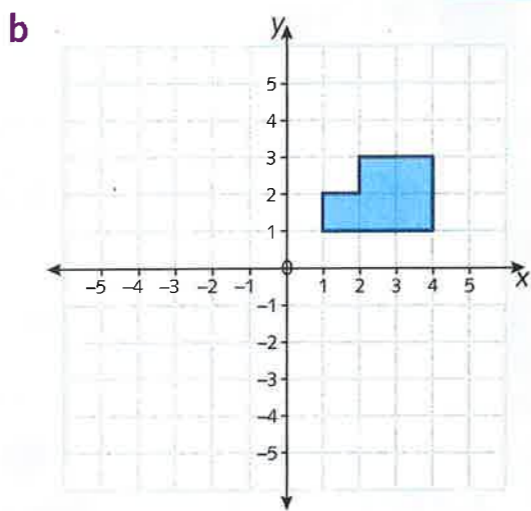
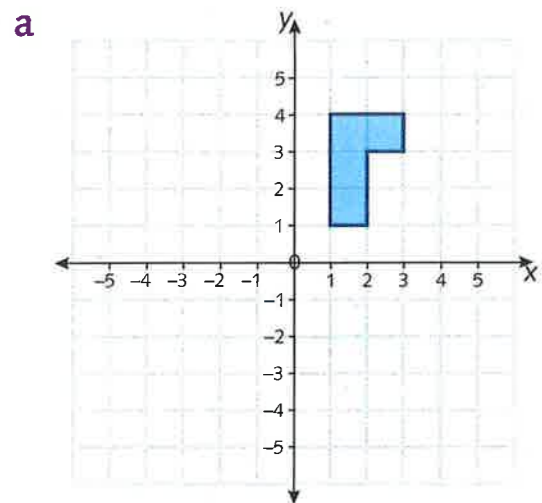
Four quadrants reflection

Use coordinates to reflect shapes into all four quadrants

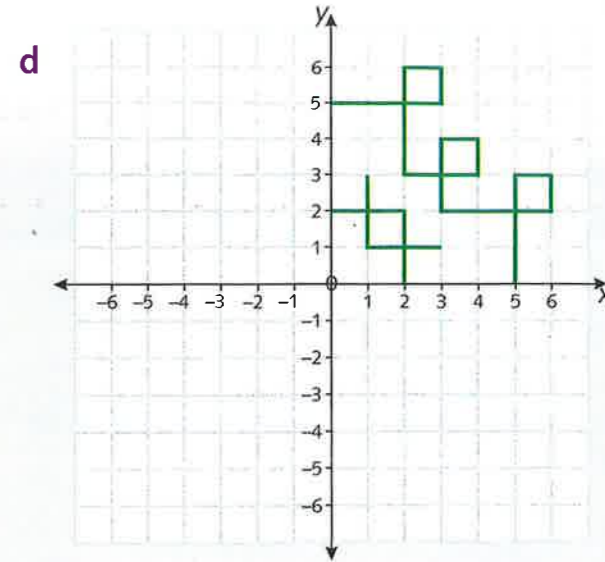
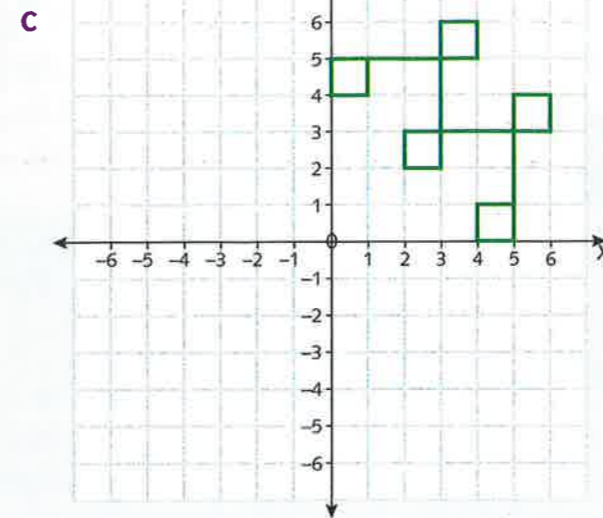
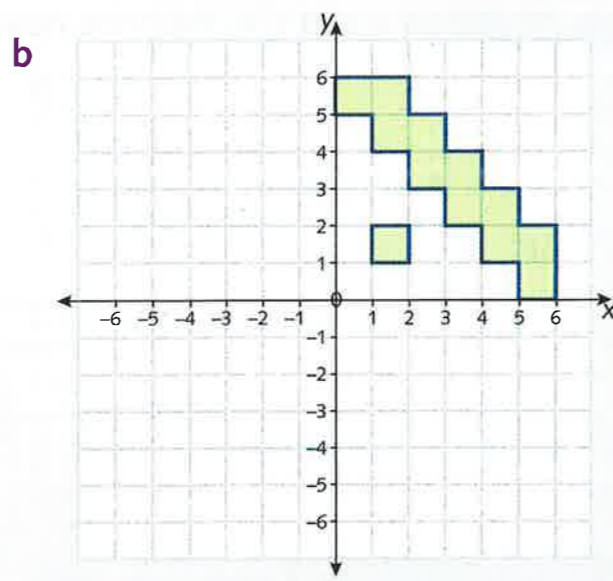
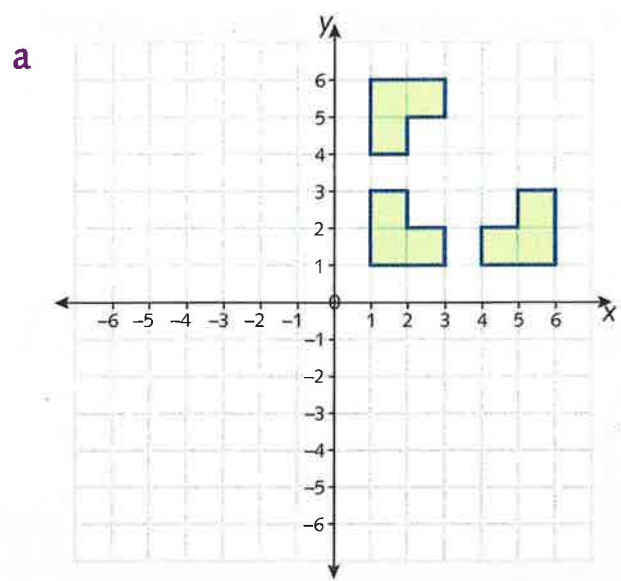
You will need:

- Resource 12: 4-quadrant coordinate grids
- ruler

1 Copy each shape onto a different grid on Resource 12: 4-quadrant coordinate grids. Reflect each shape first in the y-axis then reflect both shapes in the x-axis.



1 For each diagram, use a different grid on Resource 12: 4-quadrant coordinate grids. Reflect each shape first in the y-axis then reflect the shapes in the x-axis.



2 Copy the kite ABCD onto a grid on Resource 12: 4-quadrant coordinate grids.

a Draw the reflection of the kite in the y-axis and then reflect both shapes in the x-axis.

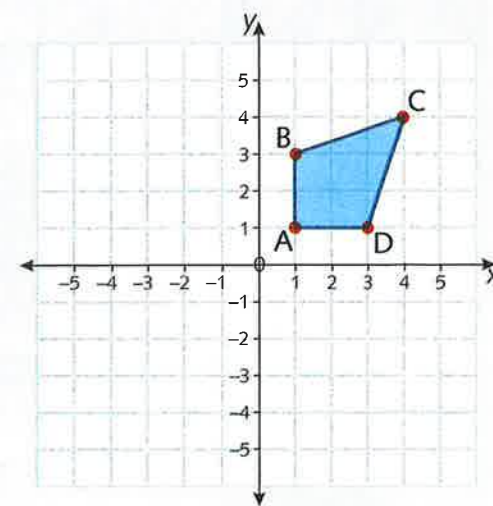
b Write the coordinates for these points and their images.

A (,), A' (', '), A'' (", "), A''' (""', ""')

B (,), B' (', '), B'' (", "), B''' (""', ""')

C (,), C' (', '), C'' (", "), C''' (""', ""')

D (,), D' (', '), D'' (", "), D''' (""', ""')



Challenge 3

Use Resource 12: 4-quadrant coordinate grids.

a Draw your own design in the first quadrant of one of the grids. Label three points P, Q and R.

b Draw the reflection of your design in the y-axis and then reflect both shapes in the x-axis.

c Write the coordinates for the vertices P, Q and R and their images as shown in Question **b**.

