

Plotting points and making shapes

Plot specified points and join them to make a 2-D shape



- Challenge 1**
- Plot these points on a 6 x 6 coordinate grid:
A (1, 2) B (5, 2) C (5, 6)
 - ABCD** is a square. Write the coordinates of **D**.
 - Join the points in order to complete the square.

You will need:

- Resource 14: 6 x 6 coordinate grids
- ruler
- or
- Coordinates tool

- Challenges 2, 3**
- Plot these two sets of points on a 6 x 6 coordinate grid:
Set A (1, 3) (1, 5) (3, 5) **Set B** (3, 1) (5, 1) (5, 3)
 - Join the three points in each set to make two right angles.
 - Complete the shape by drawing two parallel lines.
 - Name the shape you have made.
 - Plot these points: **A** (1, 1) **B** (1, 3) **C** (3, 6) **D** (5, 3)
 - Join the points **A** to **B**, **B** to **C** and **C** to **D**.
 - The shape **ABCDE** is a pentagon with two right angles. Write the coordinates of the point **E**.
 - Join **D** to **E** and **E** to **A**.

- Challenge 3**
- Draw a picture in a 6 x 6 coordinate grid.
 - Investigate what happens to your picture when you:
 - double the x-coordinate of the points
 - double the y-coordinate of the points
 - double both coordinate numbers

