

Can I develop my understanding of coordinates? (Y4)

Reasoning and problem solving

This page does not need to be printed. Write the date you do the work and the above question in your book, underlining them neatly with a ruler.

- 1) What shapes could be made by plotting three more points?



2)

When you are plotting a point on a grid it does not matter whether you go up or across first as long as you do one number on each axis.



Amir

Do you agree with Amir?
Convince me.

- 3) **Always, Sometimes, Never.**

The number of points is equal to the number of vertices when they are joined together.

Answers are on the next page.

Draw on a Grid

Reasoning and Problem Solving

What shapes could be made by plotting three more points?



The children could make a range of quadrilaterals dependent on where they plot the points. If children plot some of the points in a line they could make a triangle.

When you are plotting a point on a grid it does not matter whether you go up or across first as long as you do one number on each axis.



Amir

Do you agree with Amir?
Convince me.

Amir is incorrect. The x -axis must be plotted before the y -axis. Children prove this by plotting a pair of coordinates both ways and showing the difference.

Always, Sometimes, Never.

The number of points is equal to the number of vertices when they are joined together.

Sometimes. If points are plotted in a straight line they will not create a vertex.