



Deepen Activities

- 1 Draw an irregular shape on dotted paper and create a reflection problem for a partner to solve. Don't forget to draw your mirror line.

I will make my shape trickier by using more vertices or using a mirror line that is not vertical or horizontal.



- 2 A triangle has coordinates $(6,4)$, $(8,4)$ and $(6,1)$. When it is reflected and translated, its new coordinates are $(3,5)$, $(5,5)$ and $(3,8)$.

Draw in the mirror line and find what translation might have been done.



I wonder if there is more than one possible translation?

- 3 In pairs, use a blank 10 by 10 coordinate grid. Each choose a different colour of counters. Take it in turns to roll a 9-sided dice, and place a counter on either the x or y coordinate point that matches your dice number.

Record your coordinates as you go.

The aim is to get four counters in a row horizontally, vertically or diagonally.

