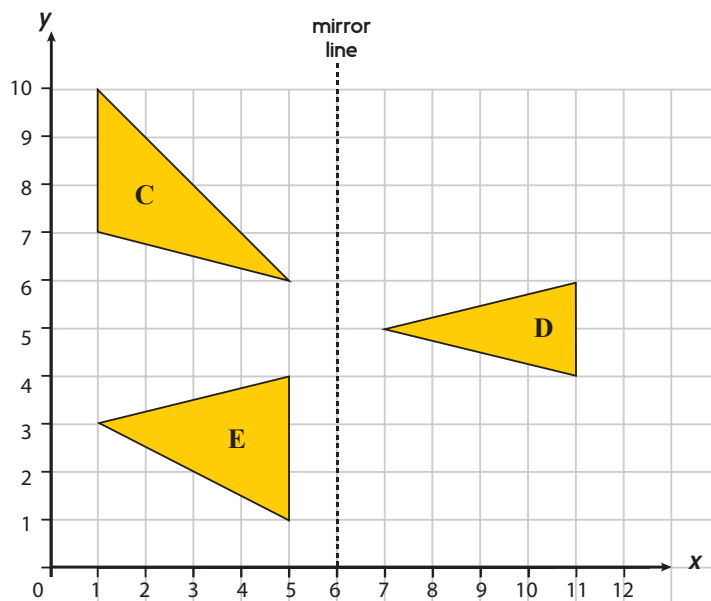


Pattern of reflections

Sheet 1

Look at triangles C, D and E.



1. Draw the reflection of each triangle, across the mirror line shown, to give triangles C1, D1 and E1.
2. Mark pairs of vertices (corners) that are reflections of each other. Use crosses, and a different colour for each pair. You should be able to find 9 pairs.
3. In the table, write the co-ordinates of the pairs of vertices you marked.

Colour of the two crosses	Vertex in shape on left	Vertex in shape on right
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)
	(,)	(,)

Did you notice anything interesting about each pair of co-ordinates?
Explain any ideas carefully...

Challenge

Triangle F has vertices at (8, 0), (6, 3) and (9, 4).
Can you predict where its reflection, F1 will be? Draw it to check.