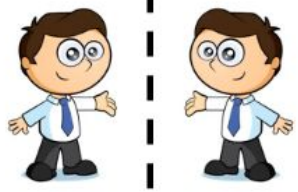
I can reflect a shape.

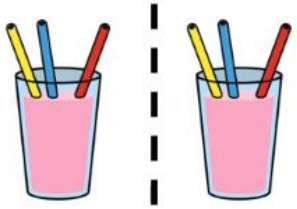
17.12.20

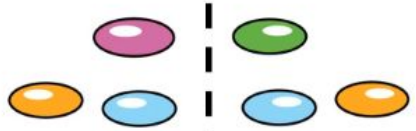
What's changed?
What's stayed the same?

Have a think

Which images are reflections? Which images are not?







Have a think

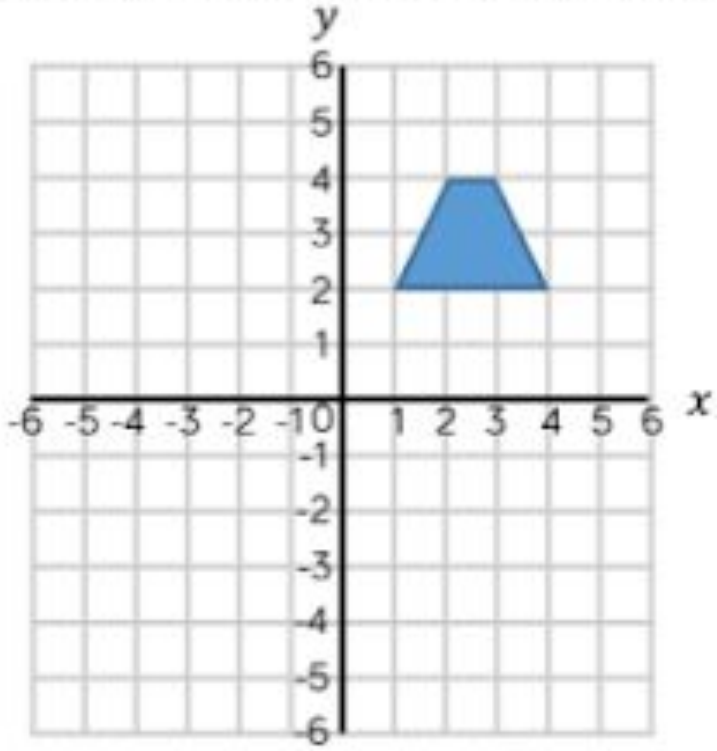
KEY QUESTIONS…

How is reflecting different to translating?
Can you reflect one vertex at a time? Does this make it easier to reflect the shape?
Which axis are you going to use as the mirror line?

Question 1

Reflect the trapezium in the x-axis and then the y −axis.

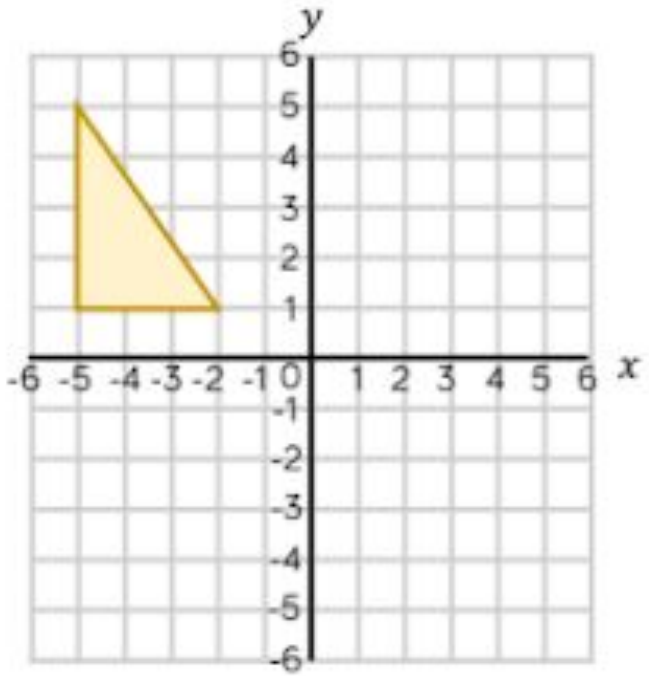
Complete the table with the new coordinates of the shape.



	Reflected in the x-axis	Reflected in the y-axis
(1, 2)		
(4, 2)		
(2, 4)		
(3, 4)		

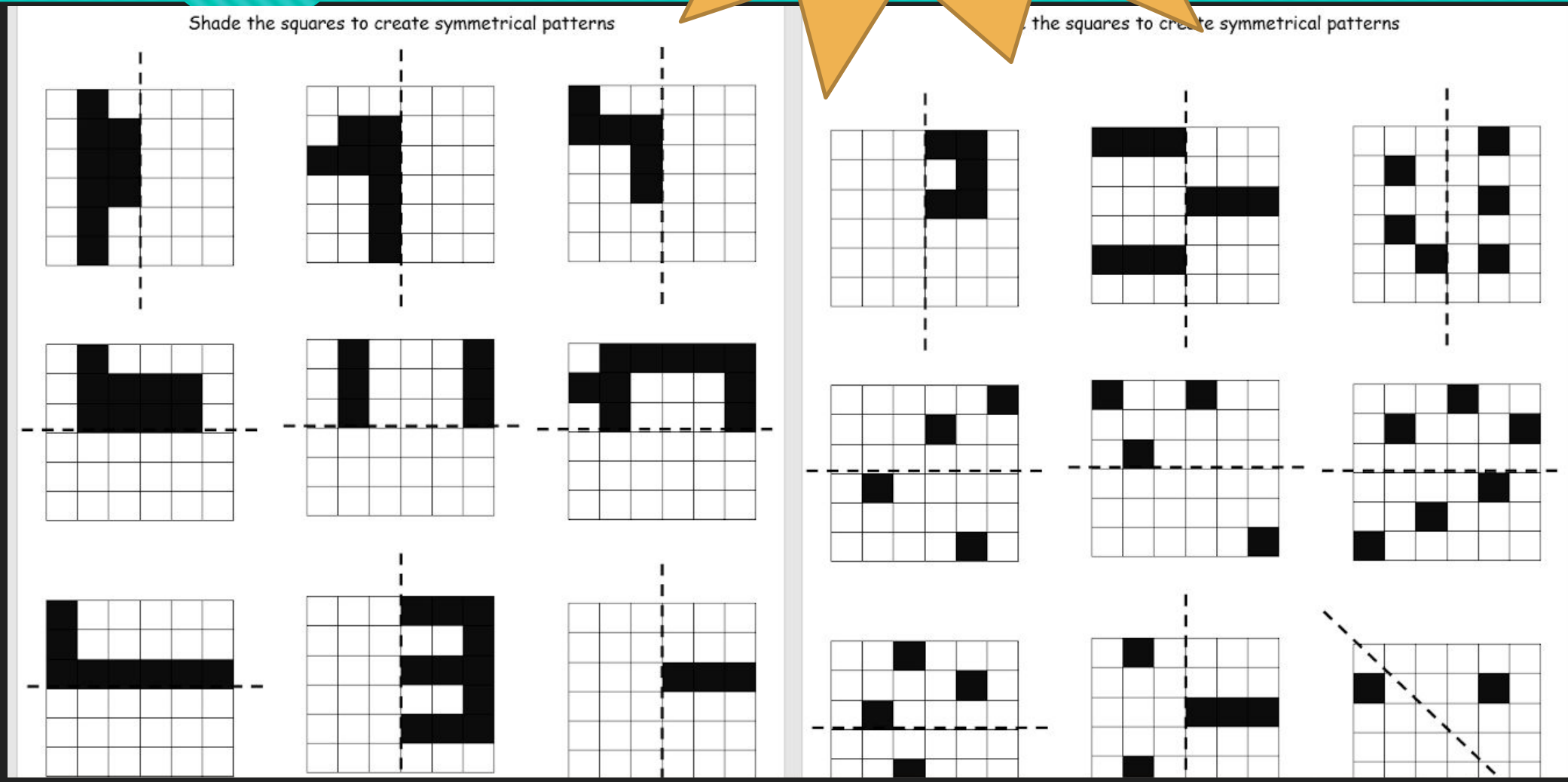
Question 2

Translate the shape 4 units to the right.
Then reflect the translated shape in the y-axis.



Warm-up…

Create reflective symmetry by shading the squares on the sheet you have been given. The mirror line is represented by a dotted line. Look carefully and check with a mirror if you aren't sure…

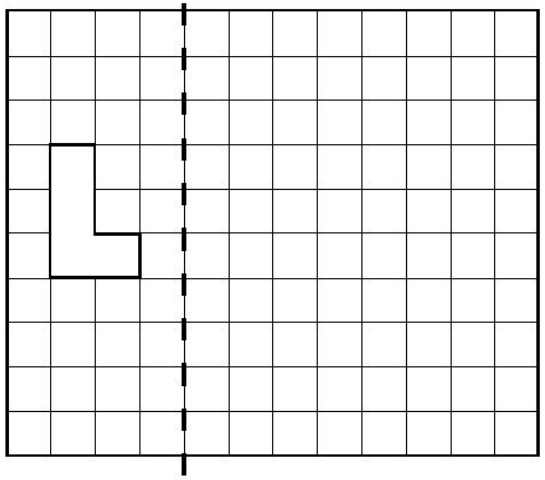


Challenge by choice…

A

Q1. On the grid, draw the **reflection** of the shape **in the mirror line.**

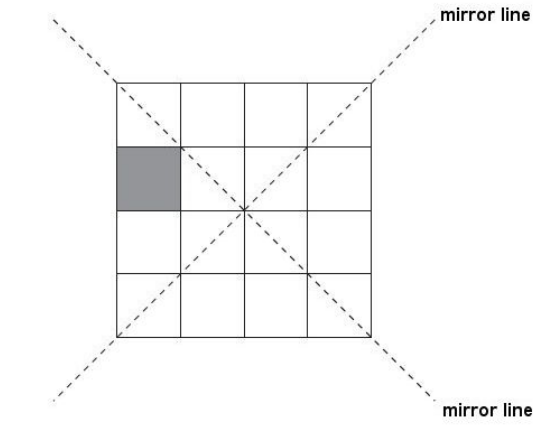
You may use a mirror and tracing paper.



B

Q1. Here is a shaded square on a grid.

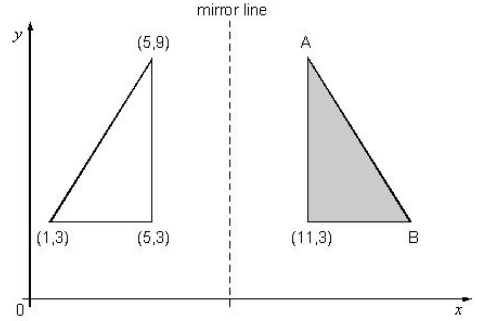
Shade in **3 more squares** so that the design is symmetrical in **both** mirror lines.



1 mark

C

Q2. The shaded triangle is a reflection of the white triangle in the mirror line.



Write the **co-ordinates** of point **A** and point **B**.

A is (,) **B** is (,)

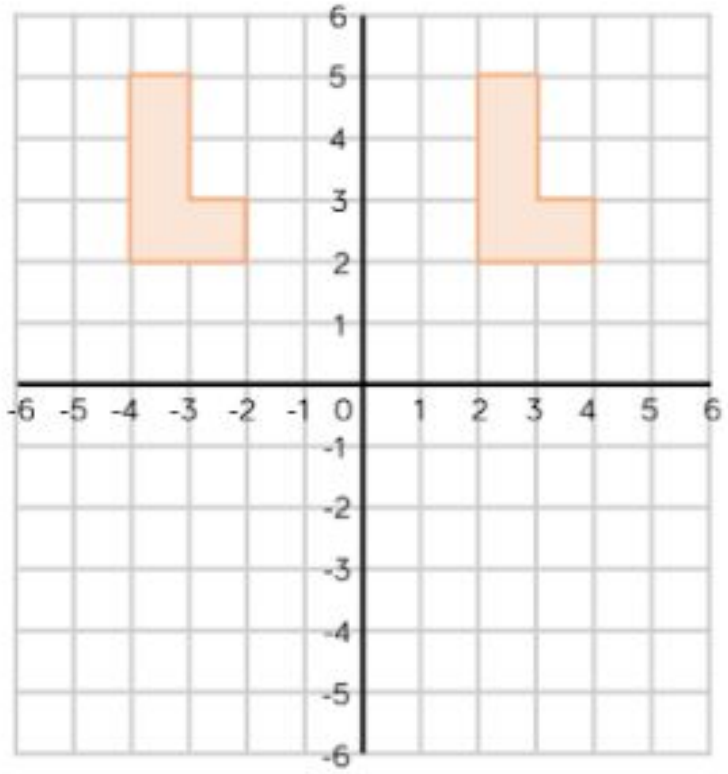
2 marks

To finish…

Annie has reflected the shape in the y-axis.

Is her drawing correct?

If not explain why.



ANSWER: Annie has used the correct axis, but her shape has not been reflected.