

1<sup>ST</sup> JUNE 2020

MATHS

POSITION AND DIRECTION

This week you will identifying, describing and representing the position of a shape following a reflection or transition.

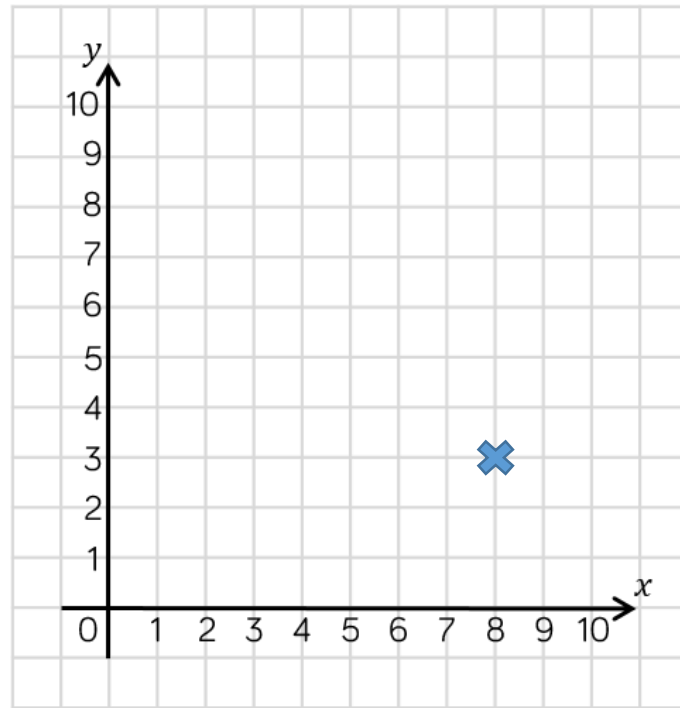
I can reflect a shape

S2S: You will need to remember what the word Reflection means

## **What is a reflection?**

**Reflection** - A **reflection of a shape** is when it is flipped over the **mirror** line and maintains the same size and angles. It is just reversed.

**Read the following slides and do the practise questions then go onto the worksheets**



The point is at (3, 8)

The point is at (8, 3)



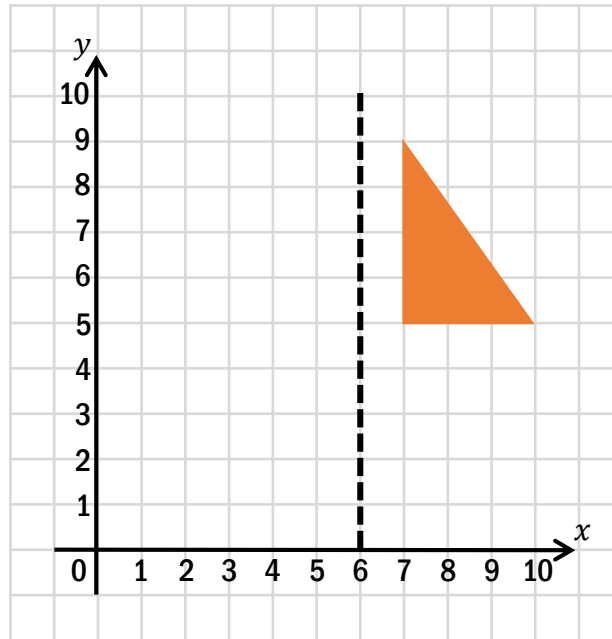
Who do you agree with? Can you spot the mistake the other child has made?



Dora

When you reflect a shape, its dimensions change.

Do you agree with Dora?  
Explain your thinking.



Eva reflects the shape in the mirror line.

She thinks that the coordinates of the vertices for the reflected shape are:

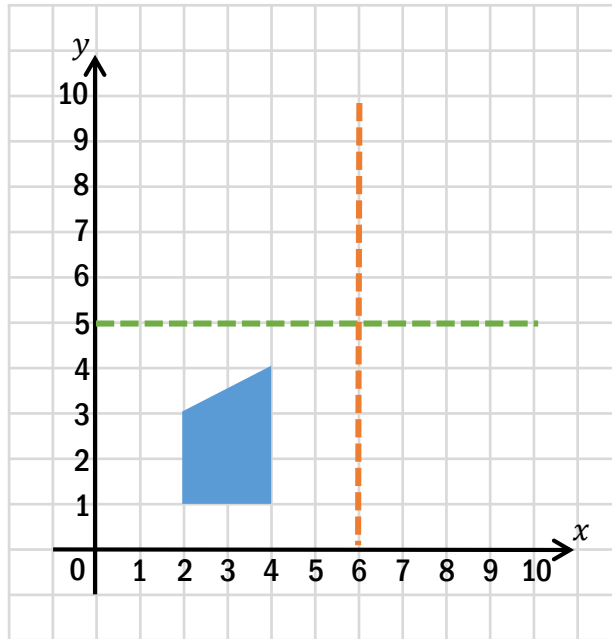
(5, 5)

(2, 5)

(2, 9)

Is Eva is correct?

Explain why.



This is a shape after it has been reflected. This is called the image.

Use the grid and the marked mirror lines to show where the original object was positioned.

Is there more than one possibility?