Day 4 Reasoning 3rd June 2020

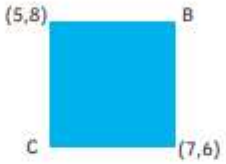
1) a) If you reflect a square in a vertical line, which coordinates will change and which will stay the same?

Why?

b) Which coordinates will change if you reflect a square in a horizontal line?

c) Investigate if this is the same for other shapes.

2) Harry has drawn a square and given the coordinates of two of the vertices.



a) Harry reflects the square in a mirror line. Looking at the reflected shape, Harry says the coordinates of vertex B are now (7,2).
Has the square been reflected in a mirror line that is parallel to the x-axis or the y-axis?
How do you know?

b) What are the coordinates of the other three vertices? Complete the table.

Original shape	Reflected shape
(5,8)	
B (,)	(7,2)
C (,)	
(7,6)	

Explain how you have worked out the missing coordinates.