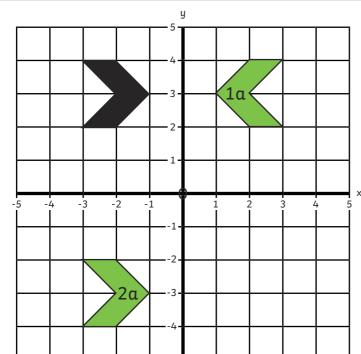
1)

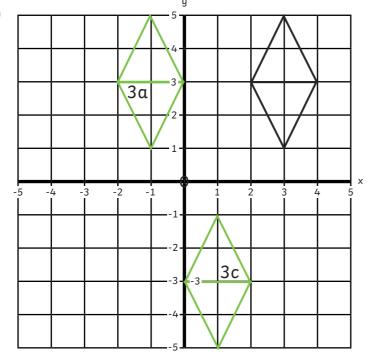




b) (1,3) (2,4) (3,4) (2,3) (3,2) (2,2)

2)

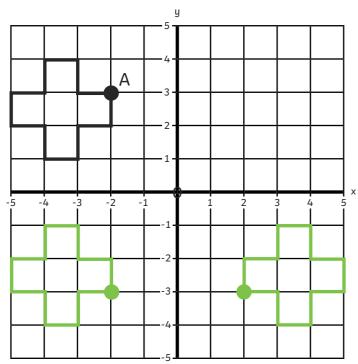
3)



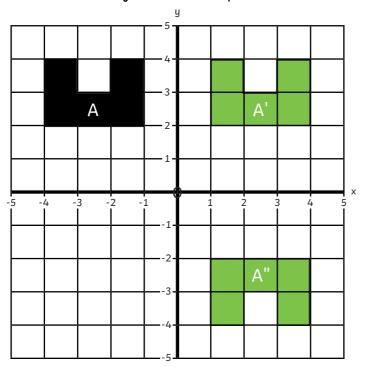
- b) (0,3) (-1,1) (-2,3) (-1,5)
- d) (1,-1) (0,-3) (1,-5) (2,-3)

1) Jacob is incorrect. He has given the coordinate for the wrong vertex. Vertex A is now at (2,-3) following both reflections.



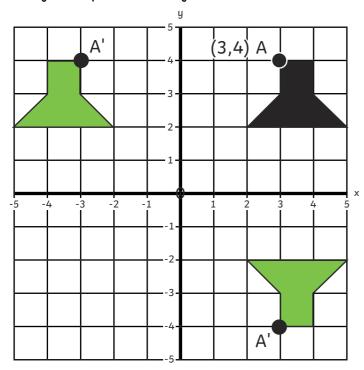


2) Meeta's shape has not been correctly reflected in the x-axis. She has used the correct axis but her shape has not been reflected. Meeta has just drawn her shape on the other side of the axis.



1) Answers will vary depending on the shape the children have drawn. In this example answer, the reflections of the original shape are shown in green.





After a reflection in the x-axis, the coordinates for point A are (3,-4). After a reflection in the y-axis, the coordinates for point A are (-3,4).

When you reflect the shape in the x-axis, the coordinates of vertex A still have the same digits, but the positive and negative signs of the y coordinate are reversed. For example, (3,4) becomes (3,-4). When you reflect the shape in the y-axis, the coordinates of vertex A still have the same digits, but the positive and negative signs of the x coordinate are reversed. For example, (3,4) becomes (-3,4).

2) Some letters, such as the H example shown, will not change when reflected in both axes. This is the same for the letters X, I and O. This may also be true for the letters B and D, depending on how they are drawn by the children.

