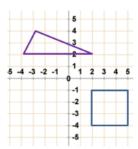
Fluency

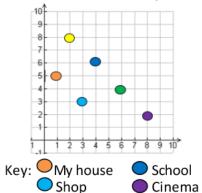
Reasoning

Problem Solving

• Write down the co-ordinates of the vertices of the shapes below.



• Chandler draws a map of his town.



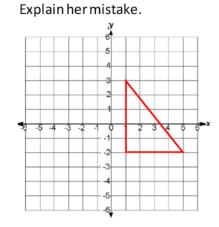
What is at these co-ordinates?

Ice rink

a) (3,3) b) (6,4)

O Park

 Nina says that the vertices are in the coordinates:
 (3,1), (-2,1) and (-2,5)

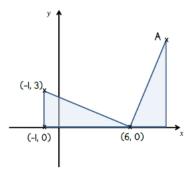


 A square has two vertices at (-2,-1) and (1,-1). What will the other two coordinates be to make the square complete?
 Is there more than one possibility?

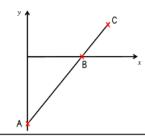
 A square has two vertices at (2,1) and (5,4). What will the other two coordinates be to make the square complete?
 Explain why there is only one possibility. The diagram shows two identical triangles.

The co-ordinates of three points are shown.

Find the co-ordinates of point A.



A is the point (0, -10)
 B is the point (8, 0)
 The distance from A to B is two thirds of the distance from A to C.
 Find the coordinates of C.



Fluency	Reasoning	Problem Solving
Describe the single translation that takes A to B. Reflect the triangle in the y axis. Y Hannah translates the triangle 2 squares to the right and 5 squares down. Find the new coordinates of the	Two squares have the following co-ordinates: Square A:(3, 5) (7, 5) (3, 9) (7,9) Square B: (1, 1) (5, 1)(1, 5) (5,5) Describe the translation of square A to B and then from B to A. Sometimes, always, never. If a shape is translated to the left and down, it stays in the same quadrant Explain your decisions Phil has completed the reflection in the x axis	How many ways can you describe the translation from one rectangle to the other? How else you can describe how the rectangle has got from one quadrant the other? Bob wants to 'transform' the square from one quadrant to another.