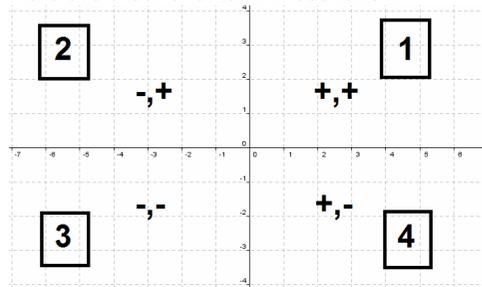


### Coordinates (locating and plotting)

Here are a set of axis with sections 1-4



Write next to each set of coordinates which section they go in:

1,2	3,-1	-1,5	-1,-3
-3,4	2,-3	1,3	3,1
-1,4	-4,2	-1,-1	6,-1
3,-1	5,5	-5,-1	3,4

Write down one point that lies on:

- (1) the x axis
- (2) the y axis

Draw a set of axis and plot the points and label them (make it a one by one grid):

A (1,2)	B (1,-1)	C (-3,1)	D (-2,-2)
E (3,-1)	F (0,3)	G (2,0)	H (-1,2)
I (2,-1)	J (0,0)	K (-1,-1)	L (3, ½)

Plot the points (0,0) (1,0) (1,1) and (0,1). Connect them up and label the shape A

Plot the points (2,1) (6,1) and (4,3) Connect them up and label the shape B

Which has the bigger area? Shape A or B

Draw a straight line connecting the points (-1,-2) and (2,-2). How long is the line?

Plot the following points and connect the coordinates to make a shape. Label it C. (-1,1) (-1,3) (-2,3) (-2,2) (-3,2) (-3,1) (-1,1) Find the area of the shape.

Plot the coordinates (1,1) (4,1) (4,3). These 3 points are 3 of the vertices of a rectangle. Find the coordinates of the 4<sup>th</sup> vertex. (A vertex is a corner)

Plot the points (0,3) (3,0) (-3,0) and (0,3). Connect the points and label the shape D. What shape does it make? What is the area?

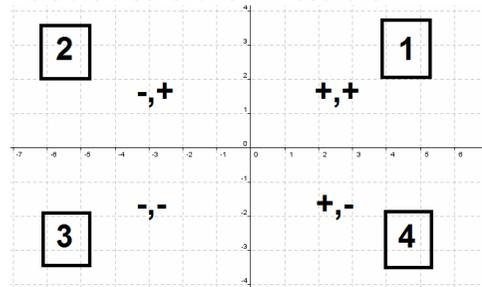
Connect the points (2,2) and (4,4) with a line. Find the midpoint of the line.

Write down 4 points that will make a square

The line  $y = x$  is a straight line where the x and y coordinates are the same. Write 3 points that are on the line and draw it

### Coordinates (locating and plotting)

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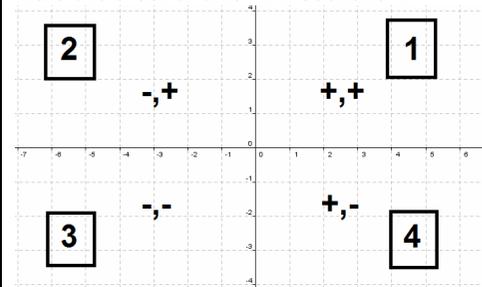
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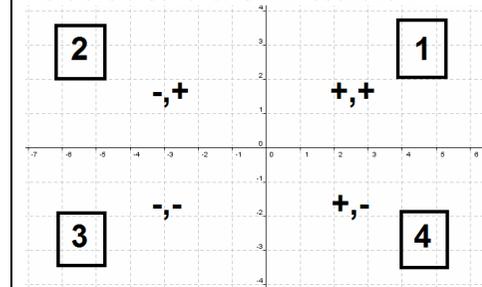
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