Annie is finding co-ordinates where the x-coordinate and the y-coordinate add up to 8.
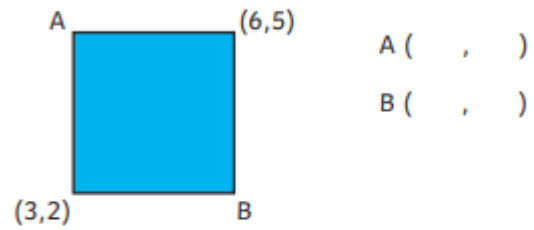
For example: (3, 5) $3 + 5 = 8$

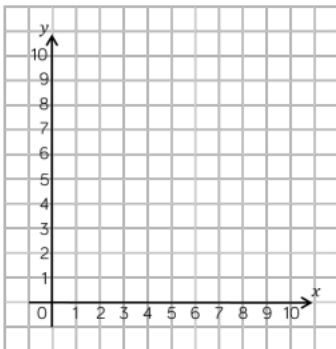Find all of Annie's coordinates and plot them on the grid. What do you notice?

Now do the same for a different total.

1) Sean has drawn a square in the first quadrant but has now hidden the x and y axes. Using the coordinates given, can you work out the missing coordinates?

A   (6,5)

(3,2)   B

A (,   )

B (,   )

2) The **same square** has now been moved to a different place on the first quadrant. Sean has given one set of coordinates for one of the vertices. Can you work out the coordinates for the other three vertices?

A   B

(4,6)   C

A (,   )

B (,   )

C (,   )

Annie is finding co-ordinates where the x-coordinate and the y-coordinate add up to 8.
For example: (3, 5) $3 + 5 = 8$

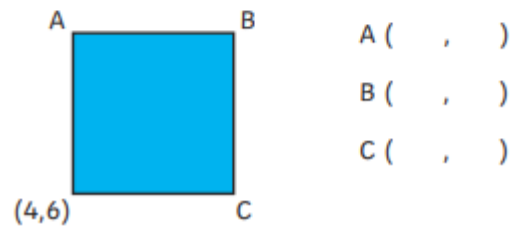Find all of Annie's coordinates and plot them on the grid. What do you notice?

Now do the same for a different total.

Annie's coordinates form a diagonal line (8, 0) to (0, 8)

1)   A (3,5)

     B (6,2)

2)   A (4,9)

     B (7,9)

     C (7,6)