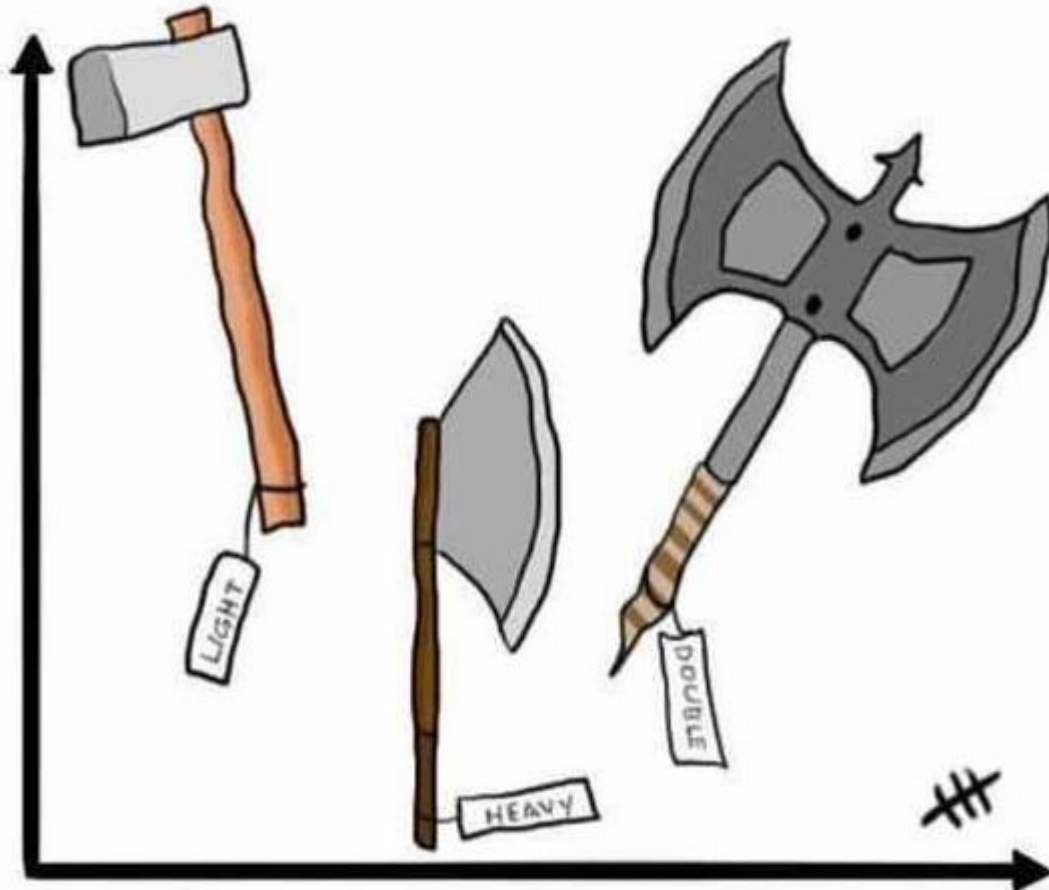


IT'S THURSDAY AGAIN! ALREADY!!


## Always label your axes



Over the next two days we are going to continue working on position and direction on grids, so here's a top tip!



## Answers to yesterday's warm up!

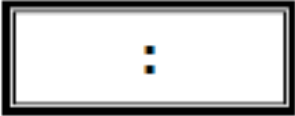
9)	Round 165 to the nearest 10.	170
10)	What fraction of the shape below is shaded? 	$\frac{5}{8}$
11)	How much money is 1 TWENTY plus 3 TENS plus 4 FIVES?	70p
12)	$48 - \underline{\quad} = 42$	6
13)	The time is 3:40pm. What will the time be in half an hour?	4:10pm
14)	How many TENS make £1.40?	14
15)	A pencil costs 31p. How much do 3 pencils cost?	93p
16)	One yard is 3 feet. How many feet in 7 yards?	21

For today's warm-up, try this mixture of different questions.  
There are 5 on this page and 5 on the next page.

1	What is 253 to the nearest hundred?			
2	Look at the numbers. Put a ring around the largest number.	3001    1003    3010 1030    310    1300		
3	What is four pounds add five pence add two pence?	<table border="1"><tr><td>£</td><td>.</td></tr></table>	£	.
£	.			
4	How many twenty pences are there in two pounds?			
5	A number multiplied by itself gives the answer 64. Put a circle around the correct number.	6    7 8    9		

For Q2 and Q5 write down the answer from the suggestions given.



6	Jodie begins school at nine o'clock. She arrives at 8:45. How many minutes early is she?	minutes
7	Subtract forty from one hundred and twenty.	
8	A square playground has a perimeter of 16 metres. How long is one of its sides?	metres
9	Imagine a triangular prism. How many edges does it have?	
10	How would quarter past six in the evening be shown on a 24 hour digital clock?	

Hopefully these questions have got you all warmed-up!



## Introduction:

Over the last few days you have been working on grids and reading and plotting points.

Today we are going to continue working on grids and using coordinates.

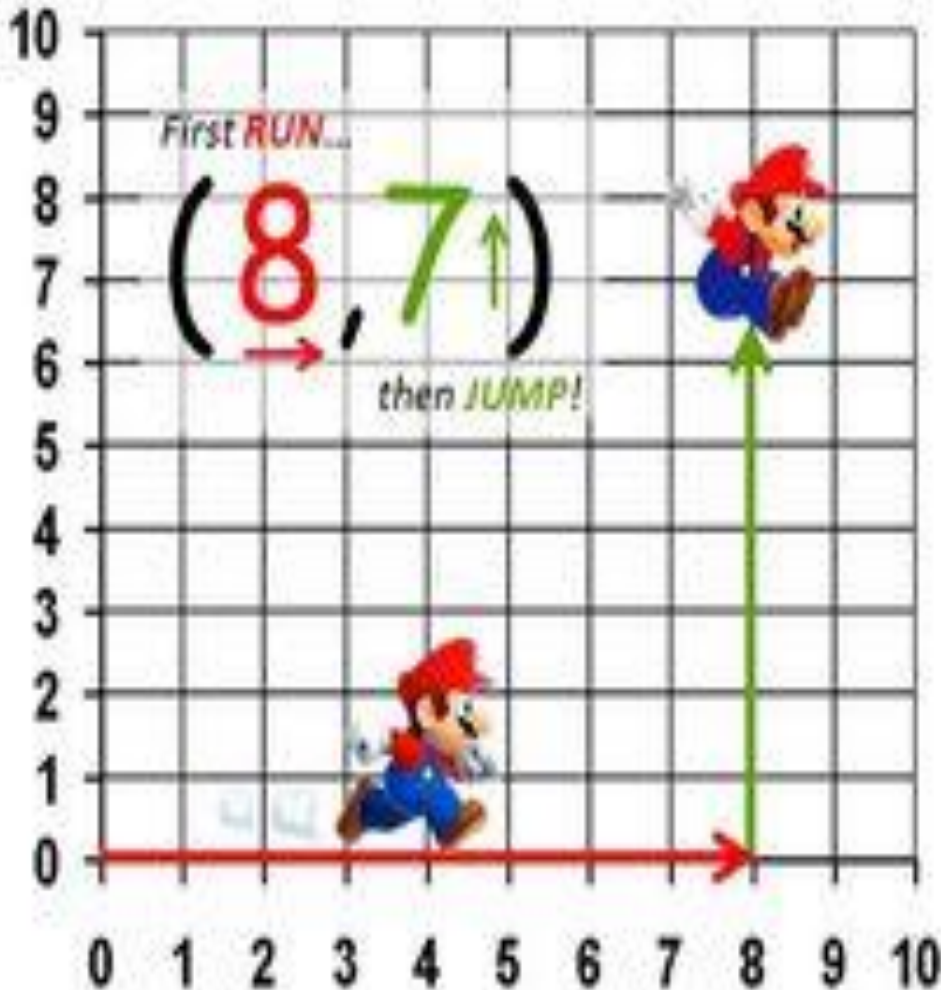
### Introduction activity:

Write down the rule you must remember when plotting coordinates on a grid.



Mario Style!

## PLOTTING COORDINATES



Your rule should be something like:

‘First run, then jump’ or

‘Across the corridor and up the stairs’.

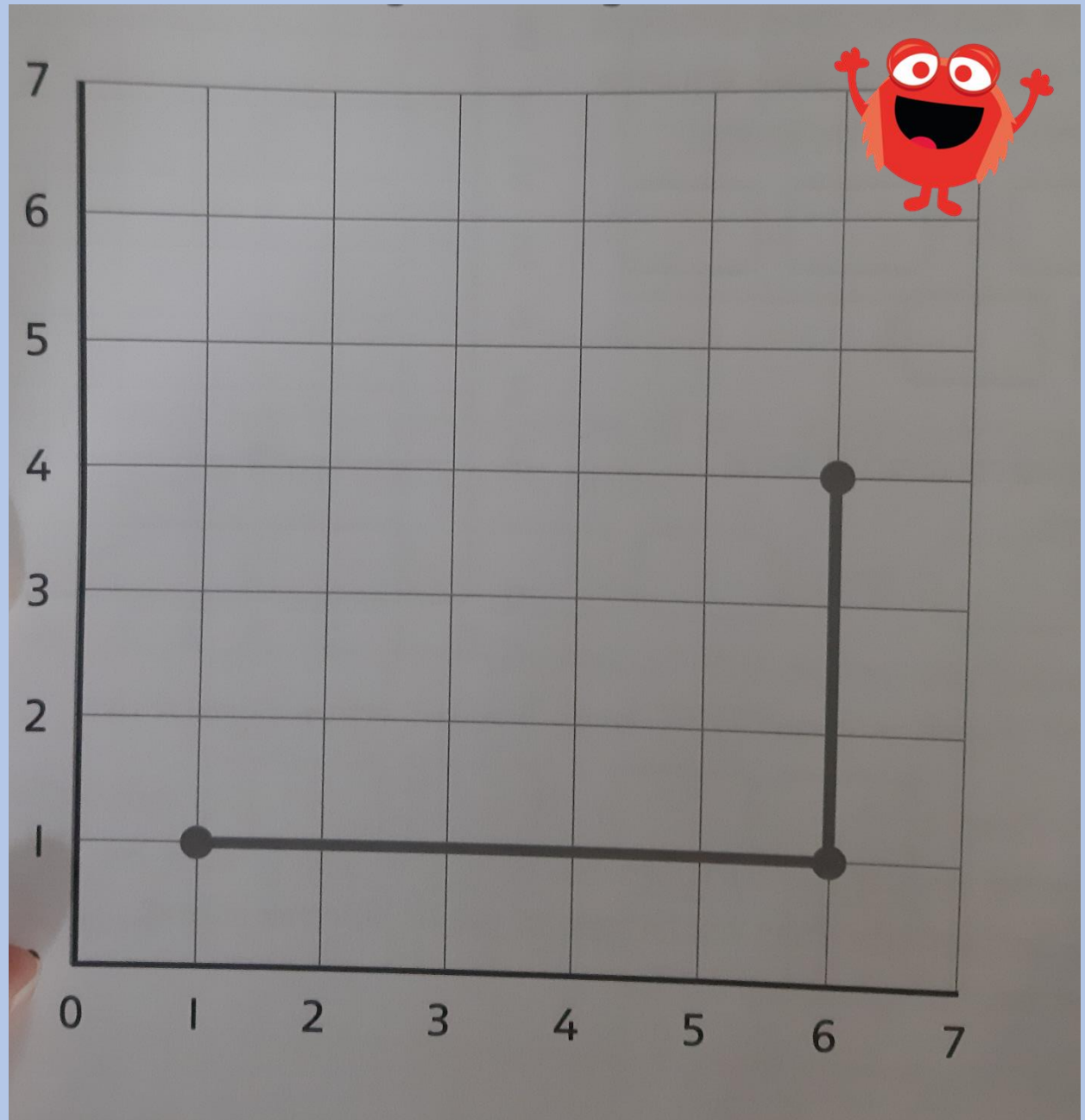
However you wrote it, it should make it clear that you go across first, then up.



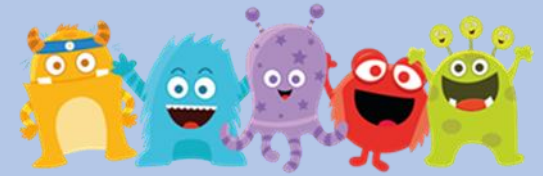
## Activity 1:

Look at the grid.  
Imagine that you  
have completed  
the drawing and  
made a rectangle.

What would the  
coordinates be?  
Remember to  
write your  
coordinates in  
brackets with a  
comma in  
between. E.g.  
(3,2)



## Activity 2:

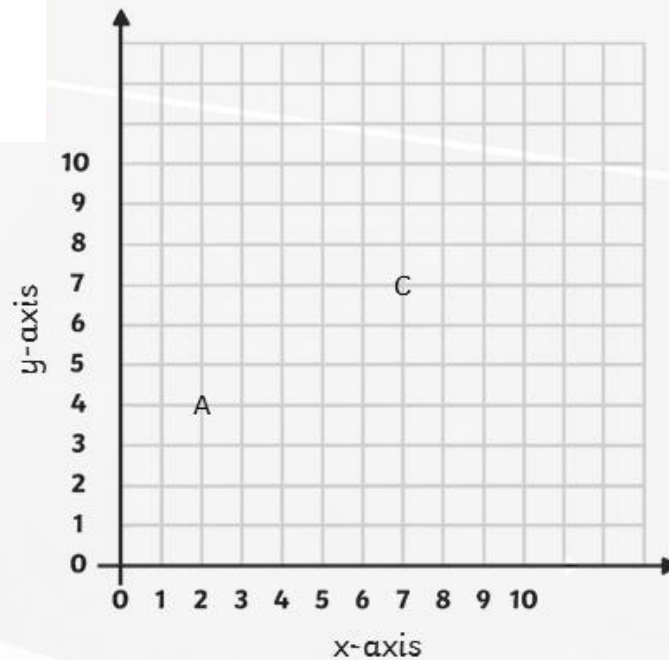


# Rectangle

Alfie marks 2 points (A and C) on this coordinates grid.

He asks, "What are the coordinates of the other 2 points?"

Find the coordinates of the other points (B and D)

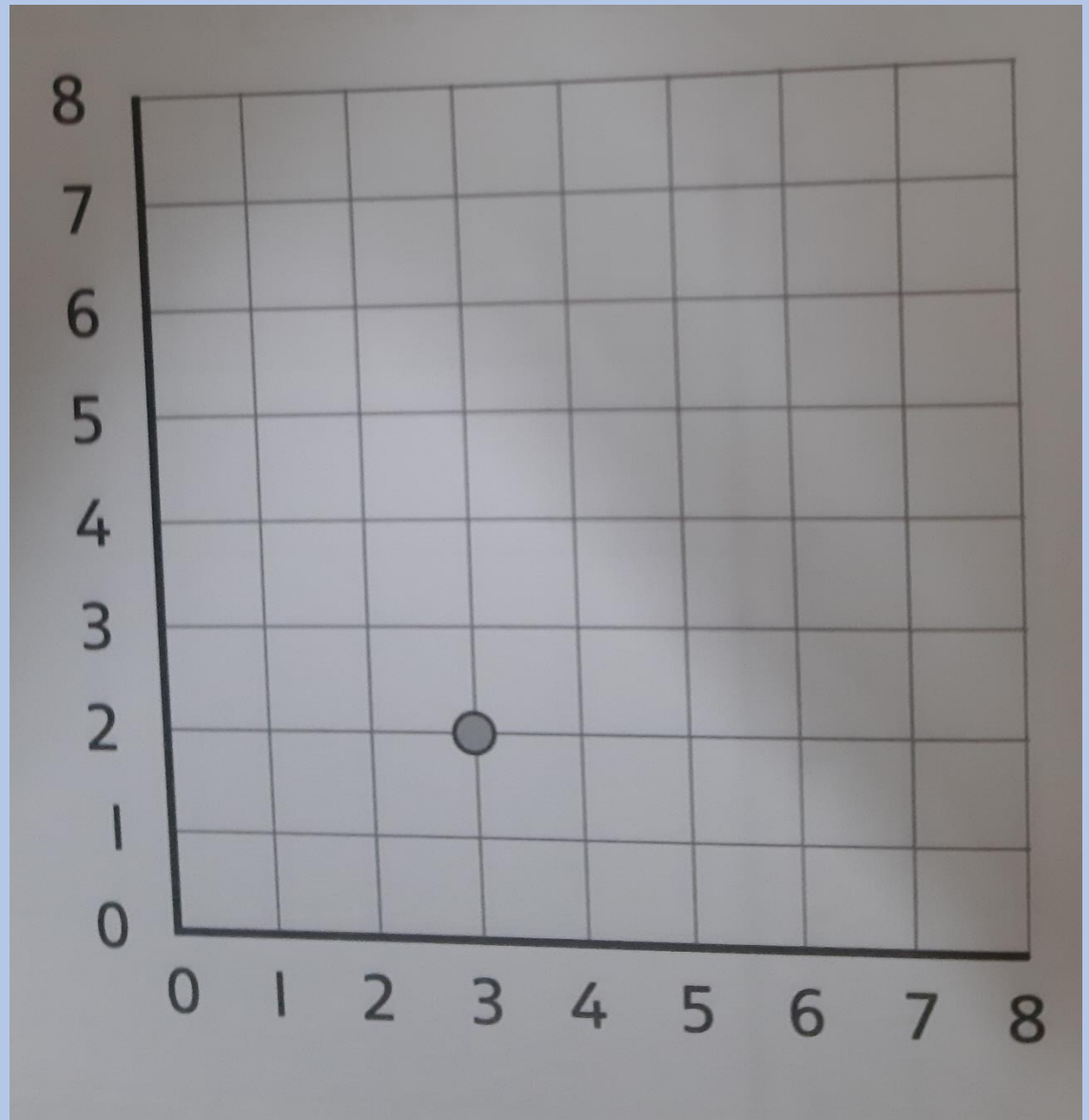
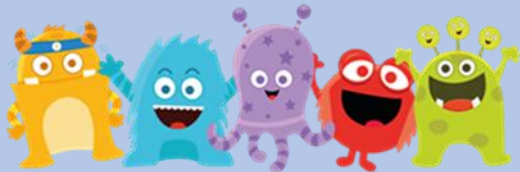




### Activity 3:

I am going to draw a square from this starting point. Each side will be 4 units in length.

What will the coordinates of the square be?



## Activity 4:



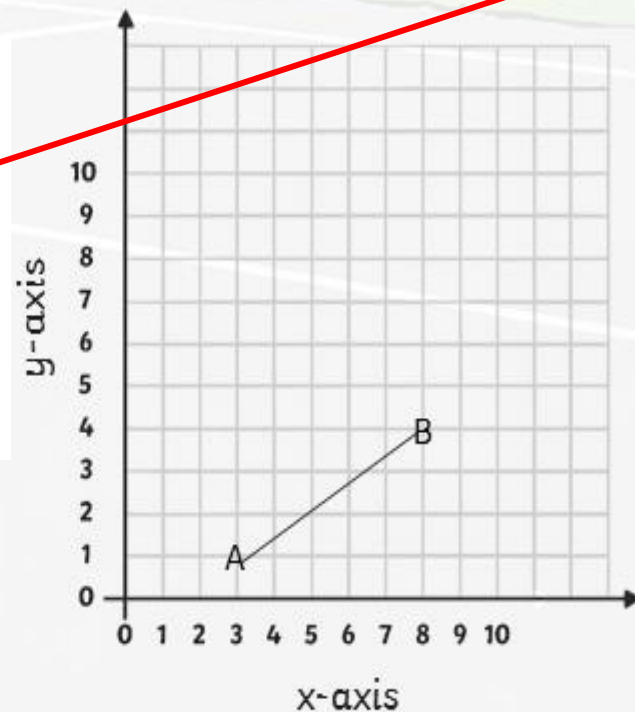
# Right-Angled Triangle

Laura marks 2 points (A and B) on the coordinates grid and draws a line to join up the points.

She says, "Are there other possible coordinates for the other vertex of a right-angled triangle?"

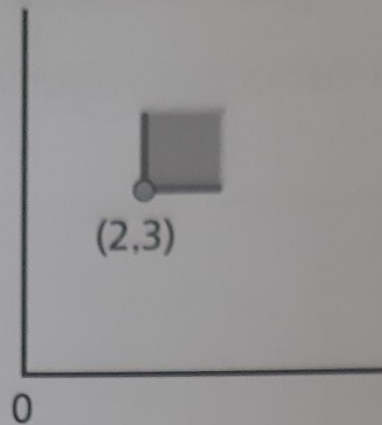
**Write down the coordinates for where point 'C' could be.**

**There is more than one possible answer.**



## Activity 5:

This is part of a shape.



- a) What are the coordinates of the other vertices if the shape is a square with sides of 6 units?

(, ) , (, ) and (, ) .

- b) What are the coordinates of the other vertices if the shape is a rectangle with sides 5 and 7? (There is more than one answer.)

Answer 1: (, ) , (, ) and (, ) .

Answer 2: (, ) , (, ) and (, ) .

Don't forget to use brackets and commas!



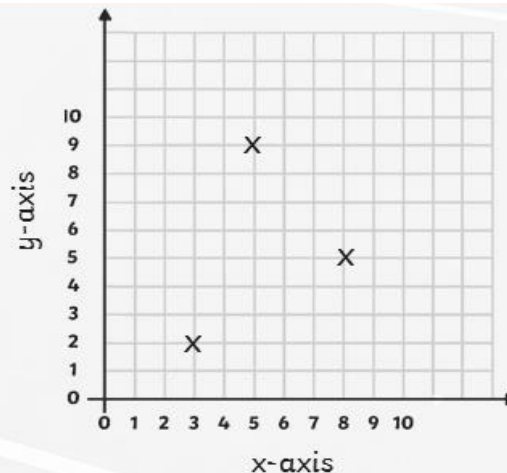
## Activity 6:

You could either visualise this in your head or you could draw a grid in your workbooks.

### Symmetrical Pentagons

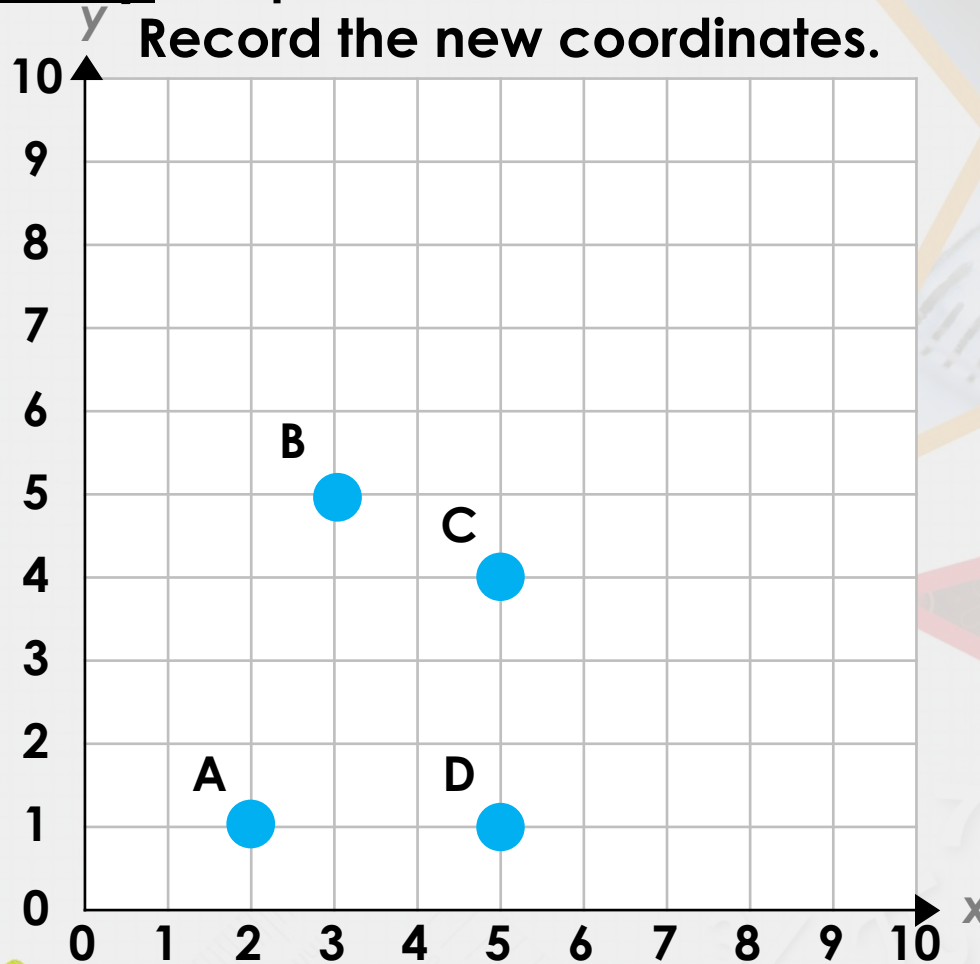
Alfie marks 3 points on this coordinates grid and says, "I can draw 2 more points to complete a pentagon that has a line of symmetry."

Can you find two other points to make a symmetrical pentagon?



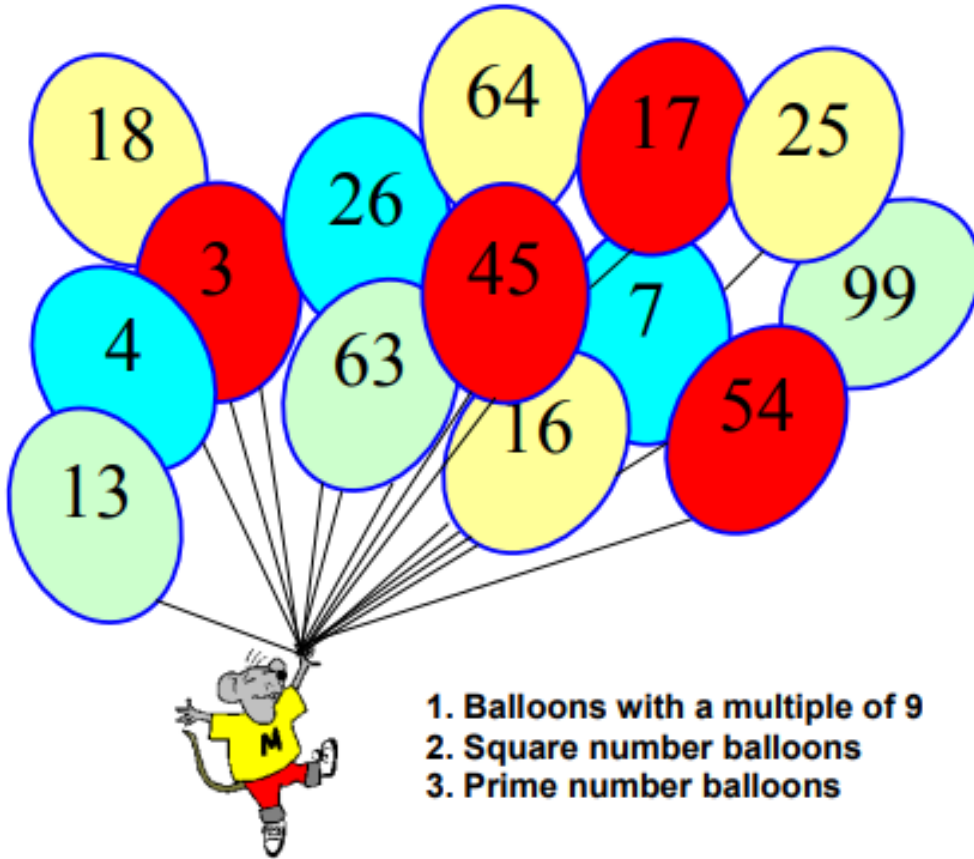
## Activity 7:

Move (translate) one point to create the vertices for a square.  
Record the new coordinates.



# BRAINTEASER TIME!

If a number in one of the balloons is included in the answers to the four problems below then that balloon will fly away.



**WHICH BALLOON IS LEFT?**

If you can't remember what a square number is then see if you can research it and find out.

