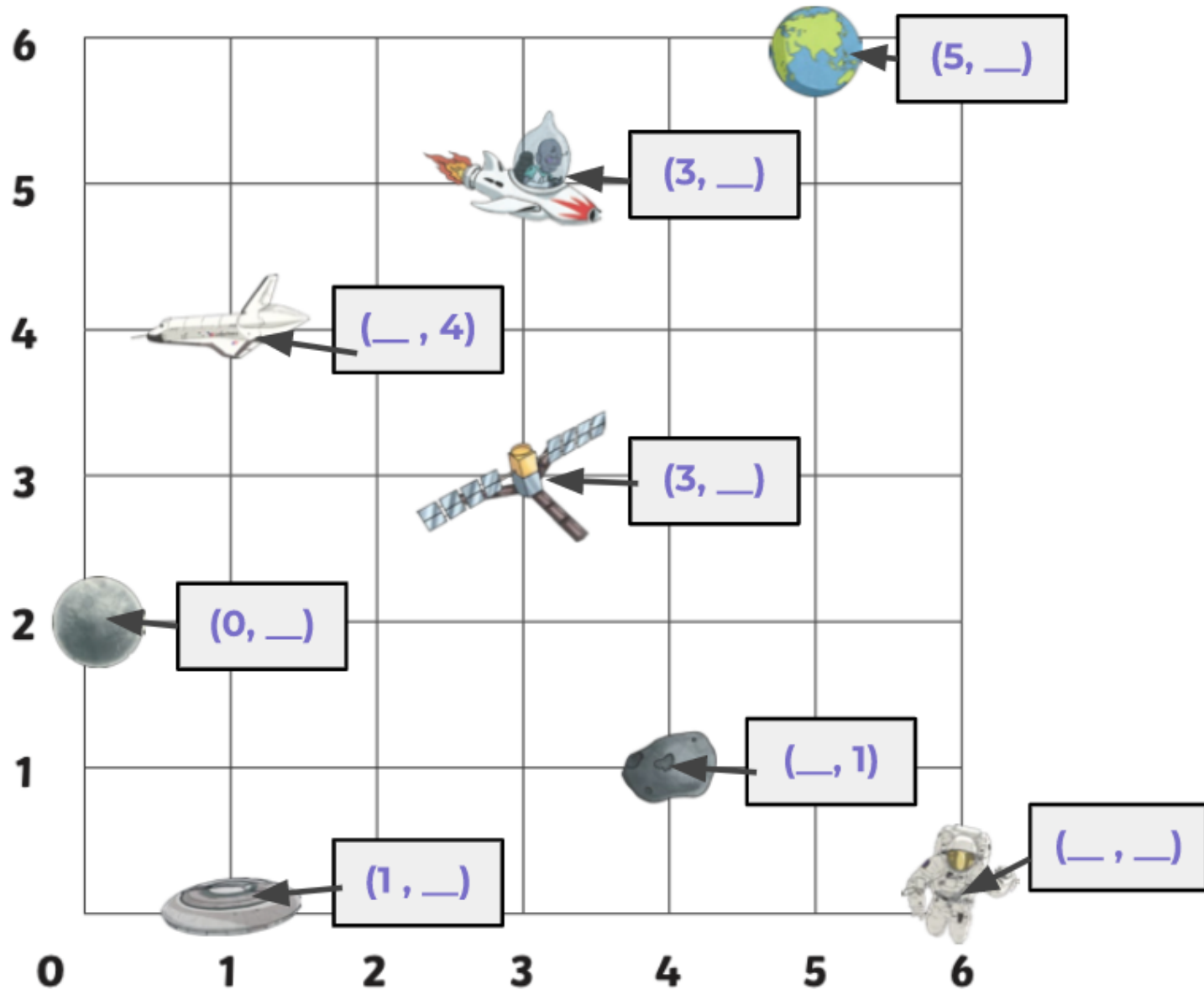


# Session 1

## Moving on

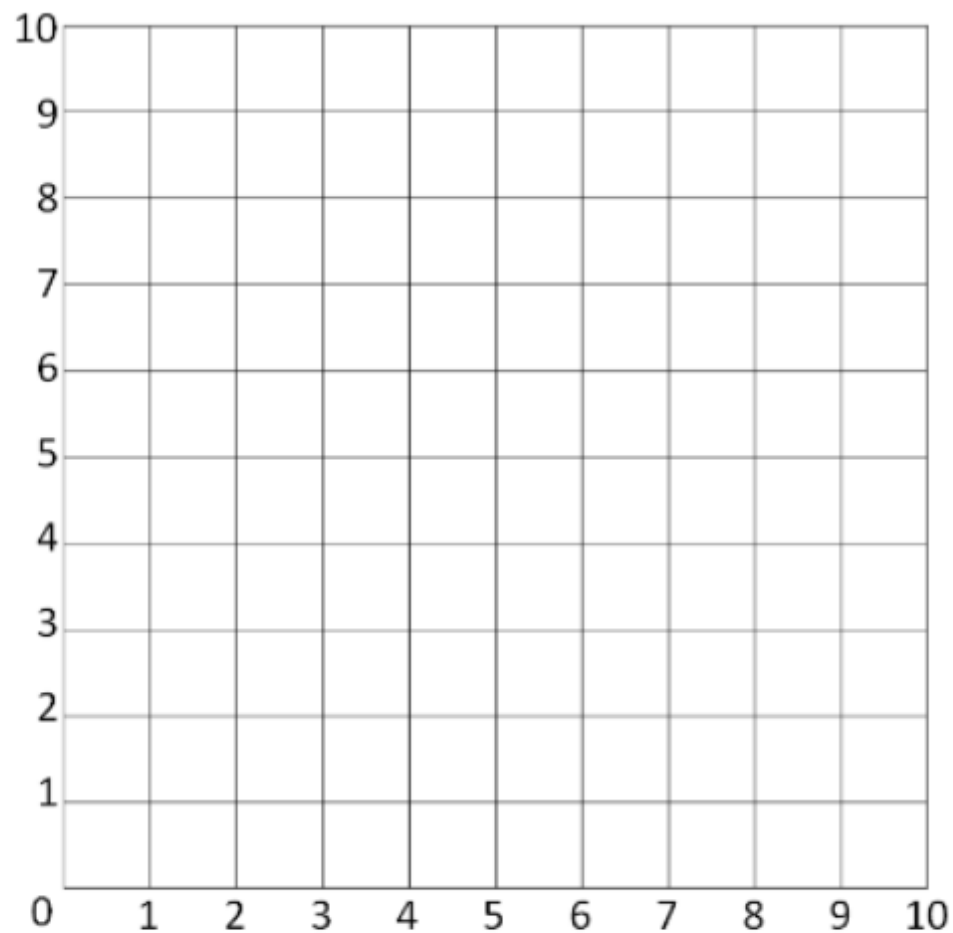
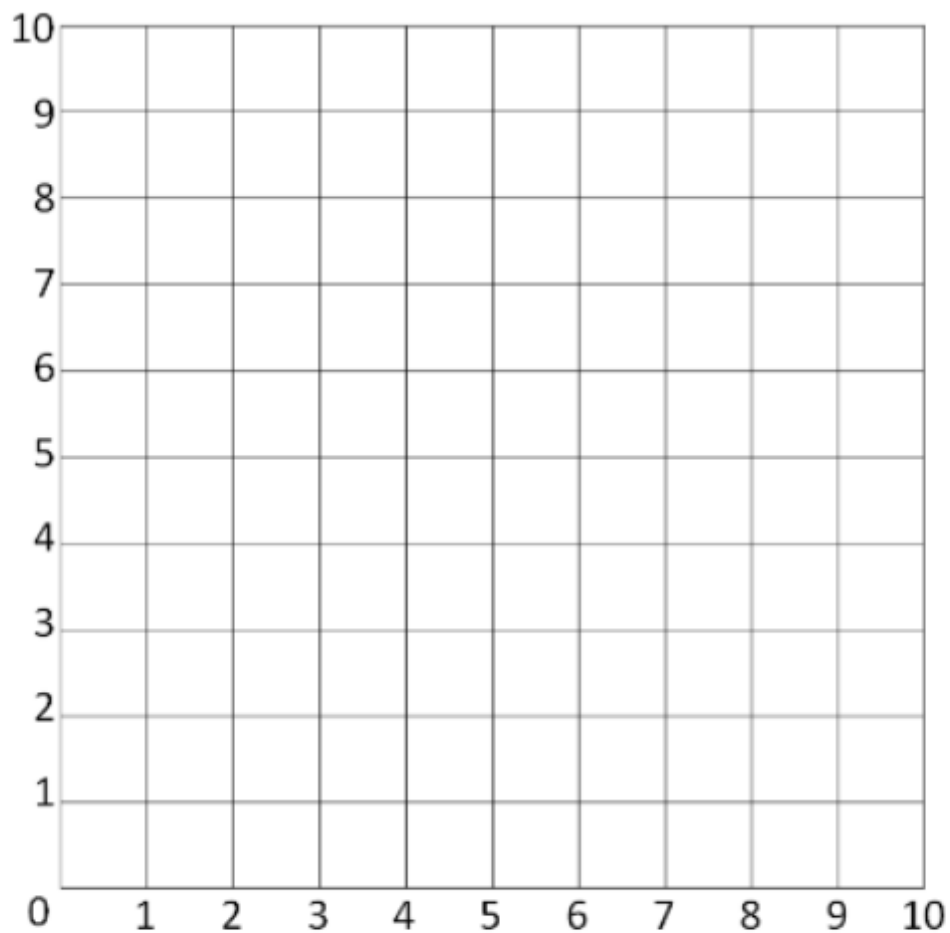
Can you complete the coordinates?  
Think: which axis do you read first?



# Session 1

## Main Task

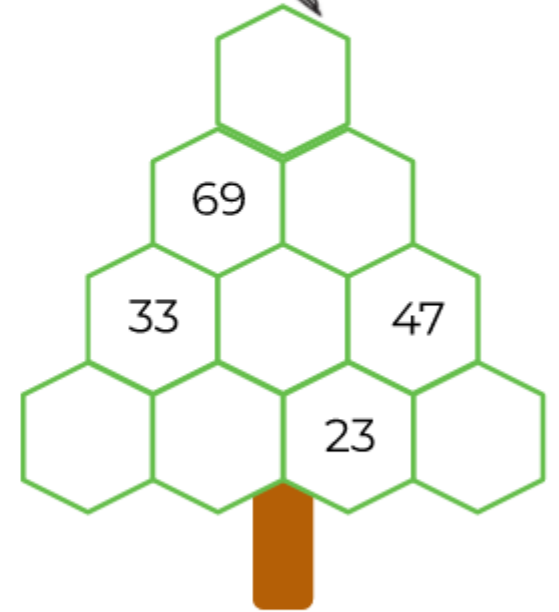
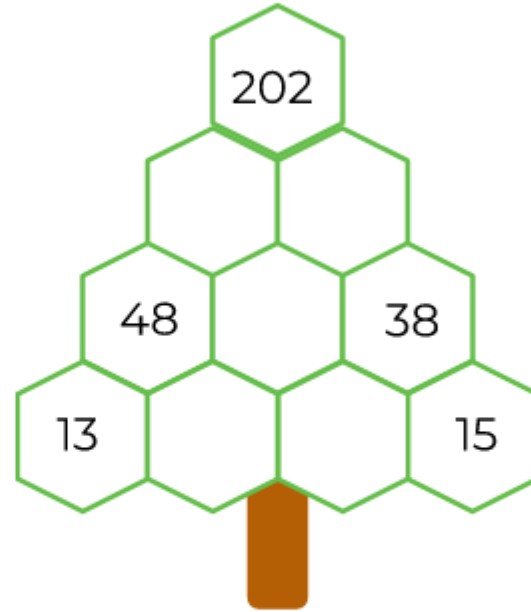
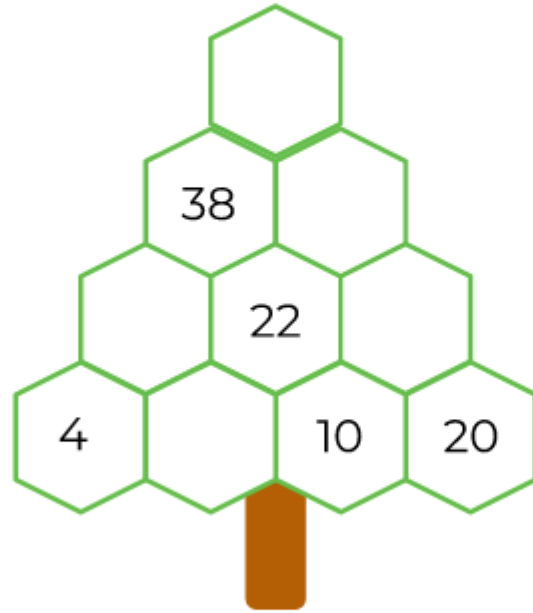
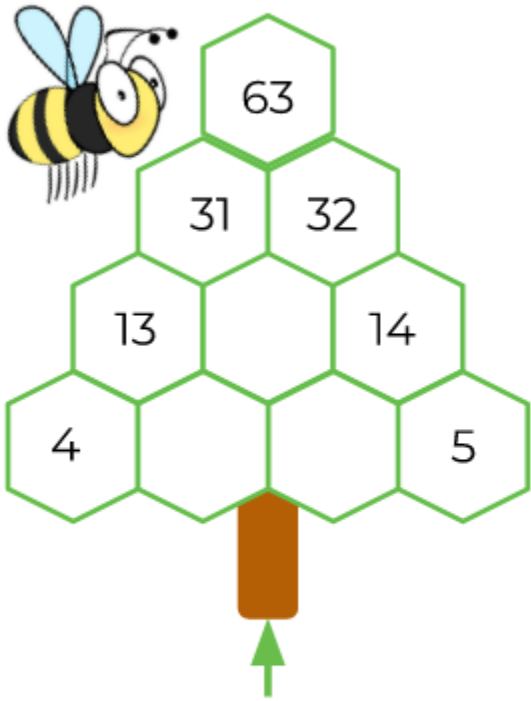
Draw 2 quadrilaterals on each grid. Write the coordinates next to each of the vertices.



# Session 2

## To Start

Complete the number trees. The number at the top is the sum of the two numbers below it.



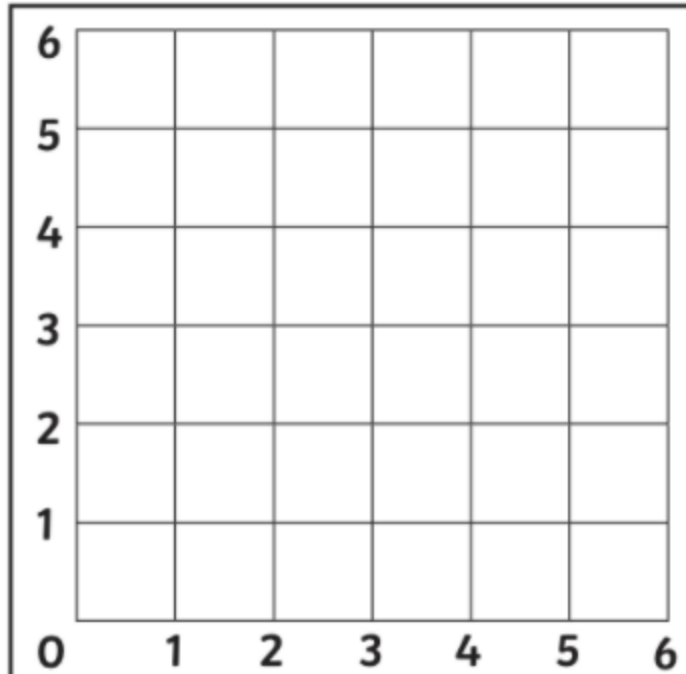
This one has been  
ALMOST completed for  
you



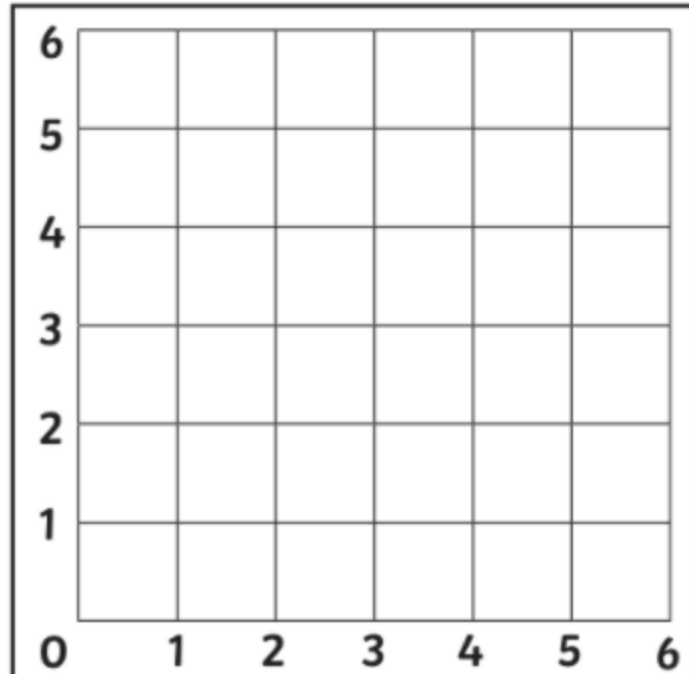
# Session 2

## Moving on

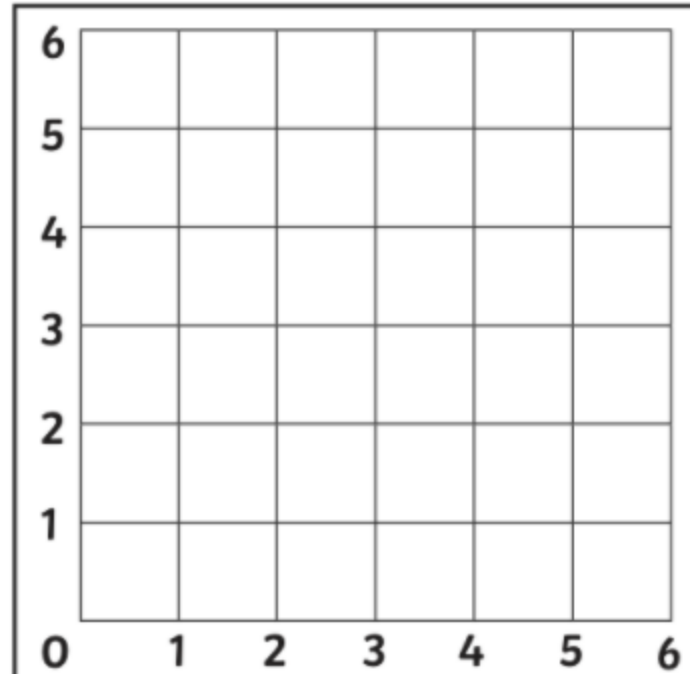
Plot to coordinates then name each shape.



$(1,1)$   $(5,1)$   $(5,5)$   $(1,5)$   
Shape:



$(1,3)$   $(5,3)$   $(5,5)$   $(1,5)$   
Shape:



$(0,3)$   $(3,6)$   $(6,3)$   $(3,0)$   
Shape:



## Session 2

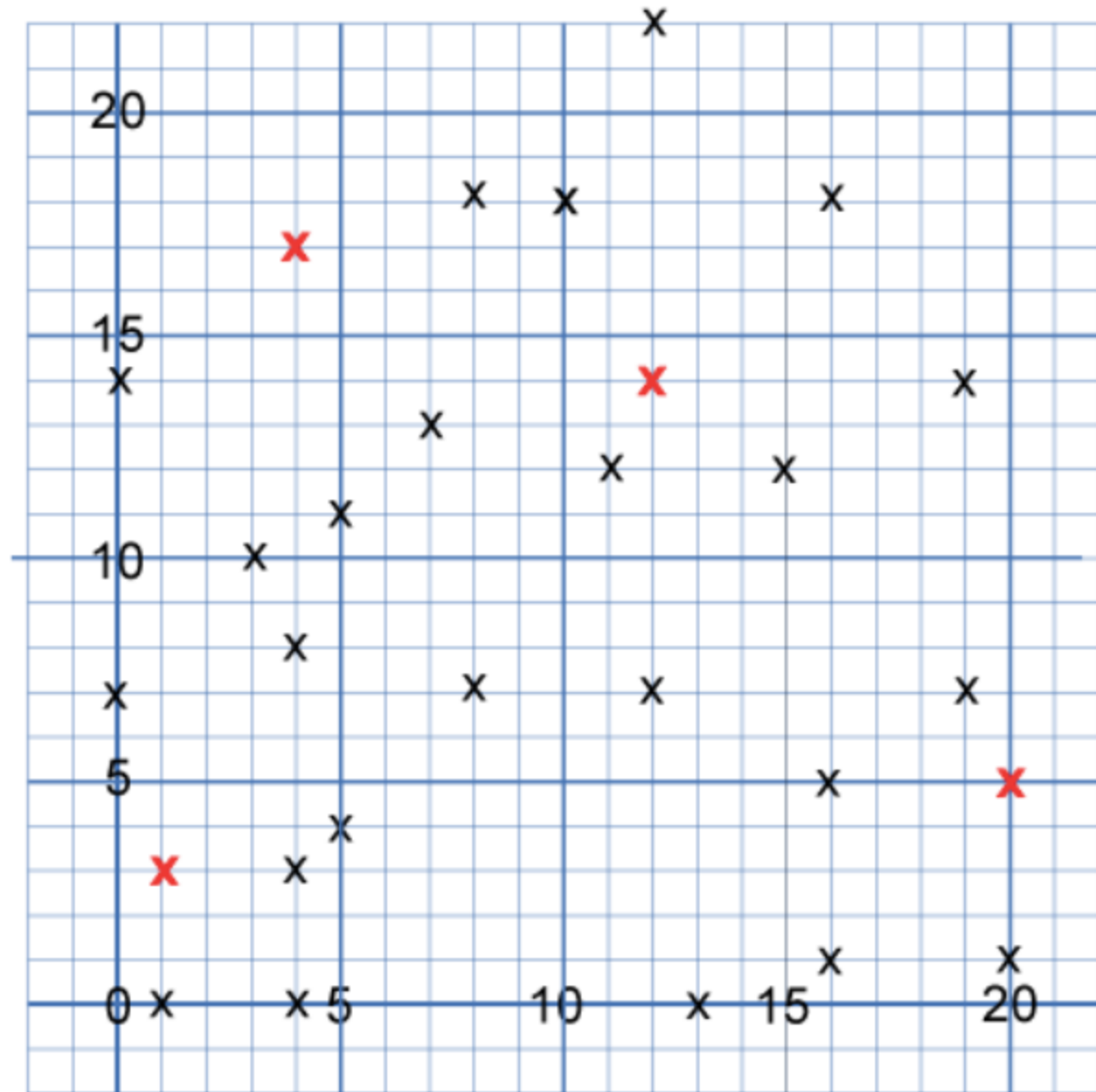
### Main task

These points all mark the vertices (corners) of eight hidden squares.

**Each of the 4 red points is a vertex shared by two squares.**

The other 24 points are each a vertex of just one square.

All the squares are different sizes.

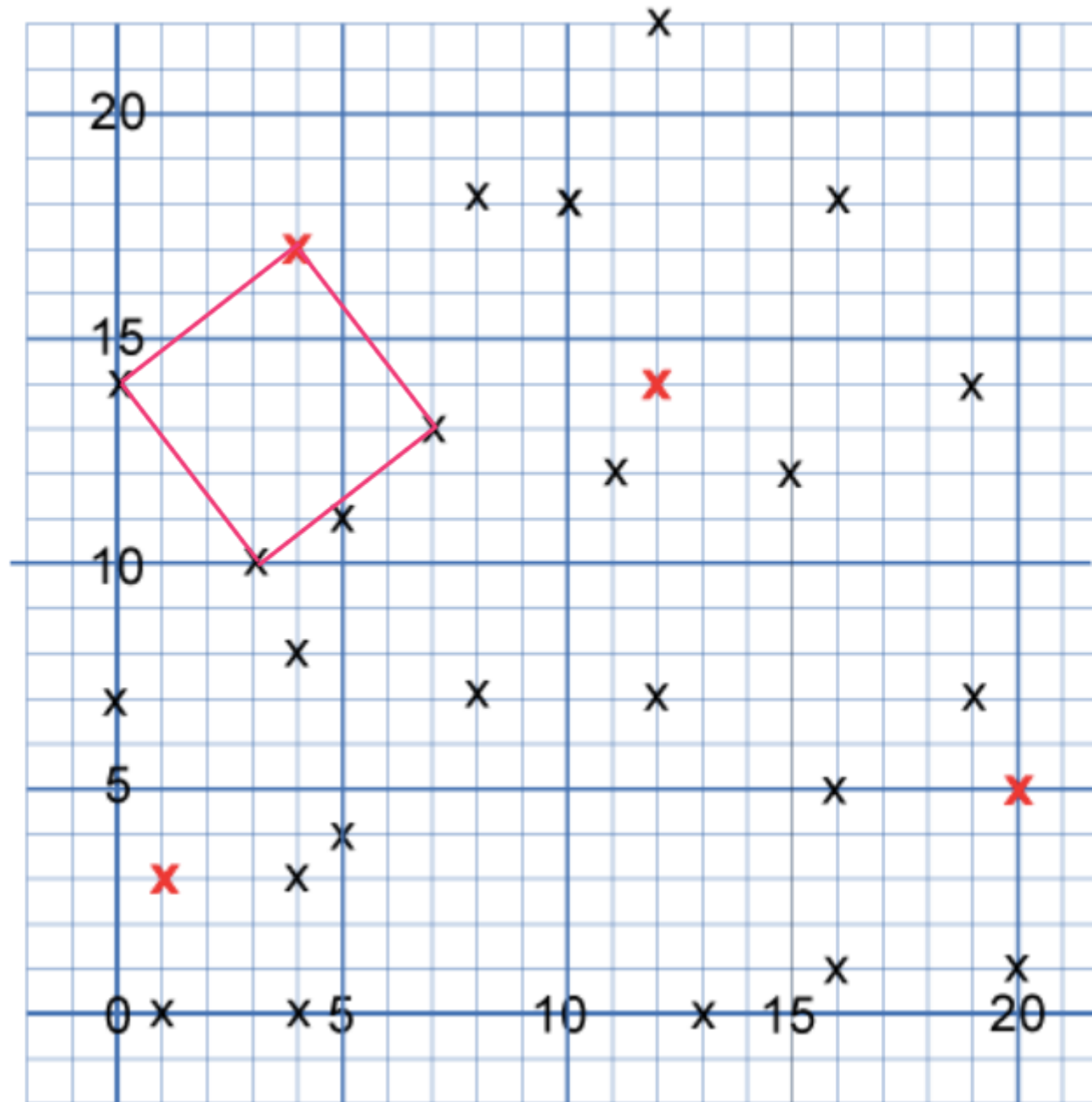


## Session 2

### Main task

Can you find all 8 of the squares and mark them off on the grid by joining their vertices up?  
I'll give you the coordinates of one square for free!

$(0,14)$   $(3,10)$   $(7,13)$   $(4,17)$



# Session 3

To Start

Times tables speed challenge

	8	4	3	2	5	6	9	10	7
4									
7									
8									
10									
11									
9									
6									
12									
5									



# Session 3

## Main Task

What do you notice is missing from this grid?

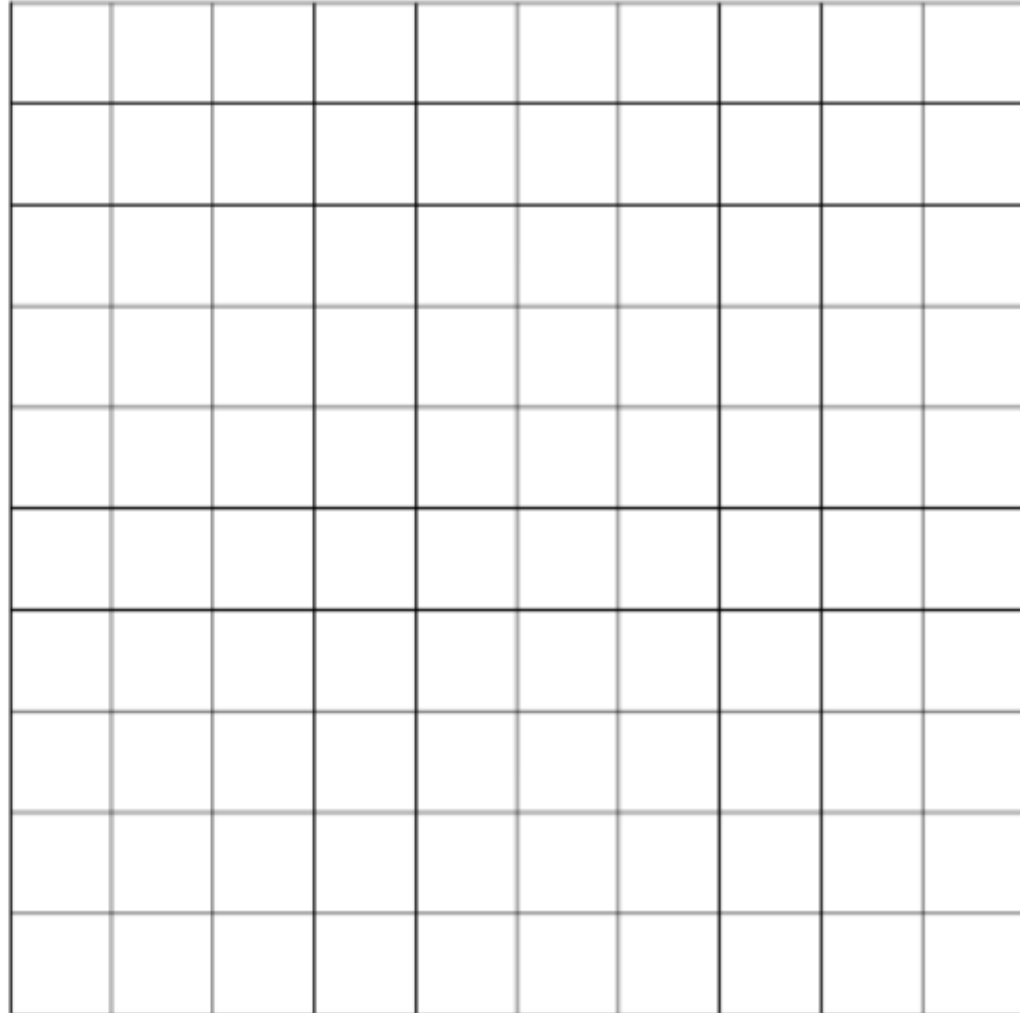
### Task 1

Label the x and the y axis from 0-10

### Task 2

Draw the following triangles:

- A.  $(0,4)$   $(0,6)$   $(3,5)$
- B.  $(3,6)$   $(5,6)$   $(3,9)$
- C.  $(2,0)$   $(4,0)$   $(1,3)$
- D.  $(7,0)$   $(5,2)$   $(10,3)$
- E.  $(5,4)$   $(9,4)$   $(7,5)$
- F.  $(8,9)$   $(10,9)$   $(9,5)$





## Main Task

### Task 3

Leave the equilateral triangles blank

Make the isosceles triangles stripey

Make the scalene triangles spotty

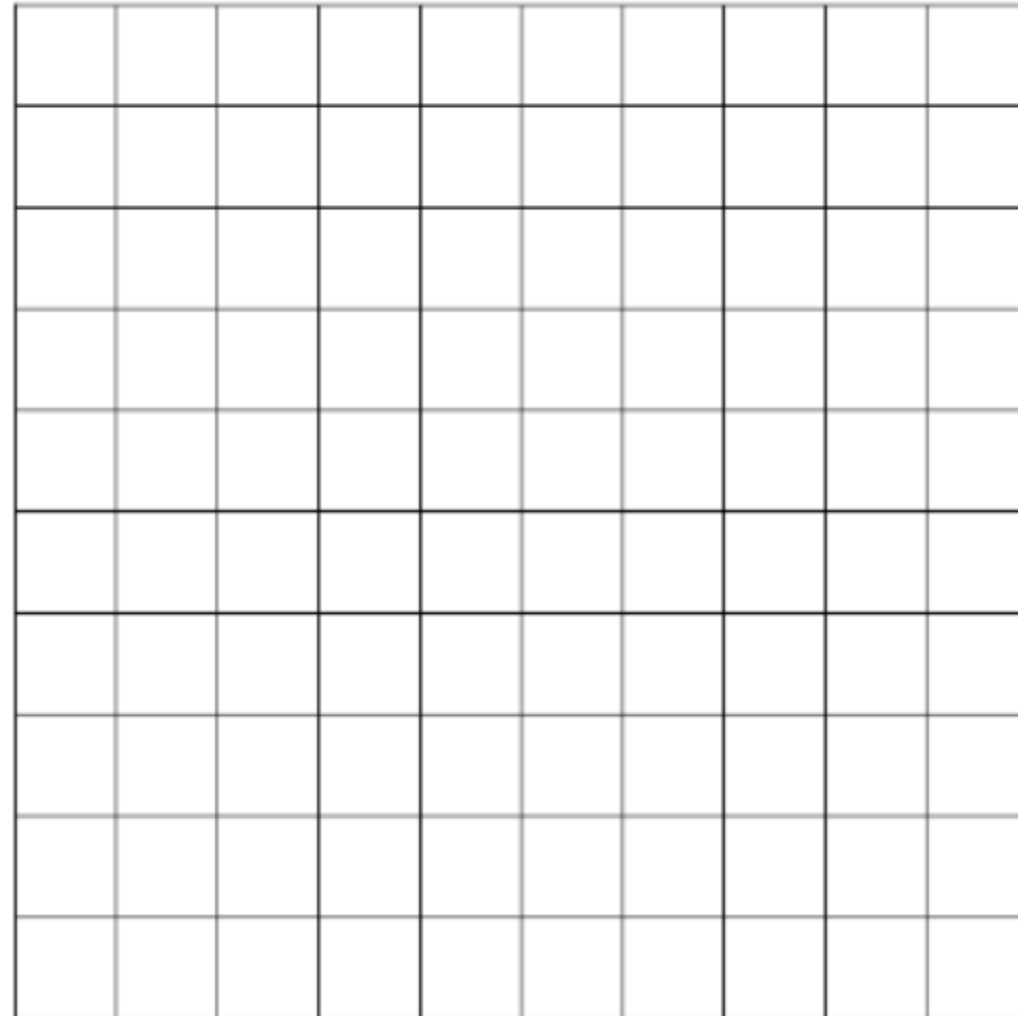
Shade in the right angled triangles

### Task

Mark any acute angles with the letter a

Mark any right angles with a square

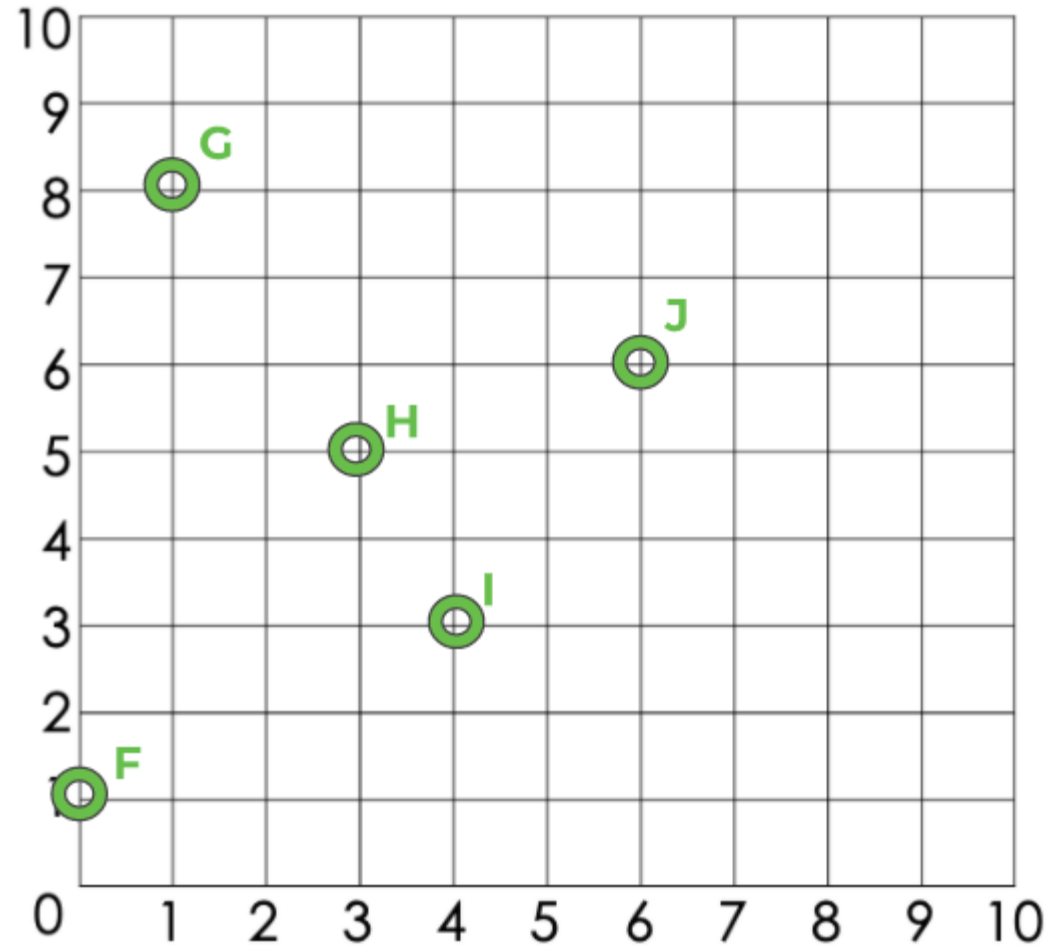
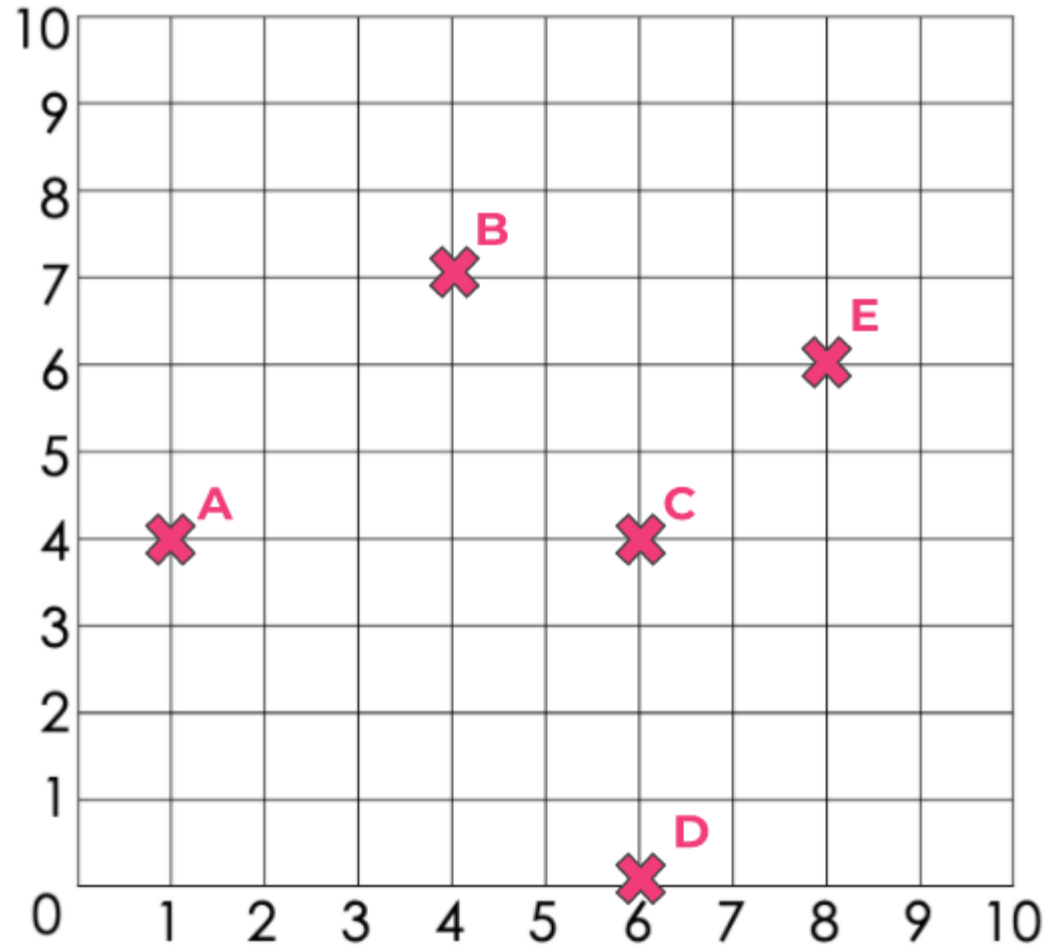
Mark any obtuse angles with the letter o



## Session 4

### Main Task

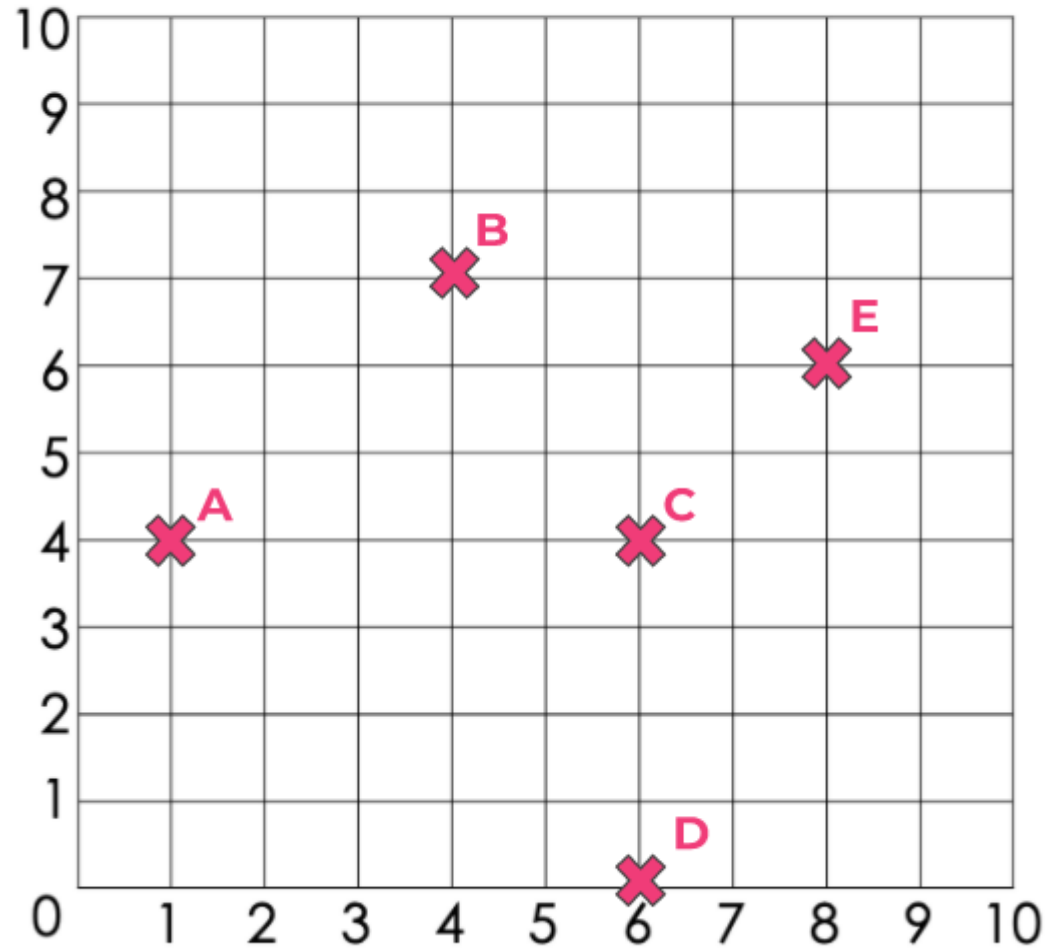
If each of **X** points is translated  $(2, 3)$ , what will all the new positions be?  
If each of the **O** points are translated  $(4, 1)$  what will the new positions be?  
Write the final coordinates for each.



## Session 4

### Main Task

If each of **X** points is translated  $(2, 3)$ , what will all the new positions be?  
If each of the **O** points are translated  $(4, 1)$  what will the new positions be?  
Write the final coordinates for each.



Point	Final coordinate after translation
A	
B	
C	
D	
E	

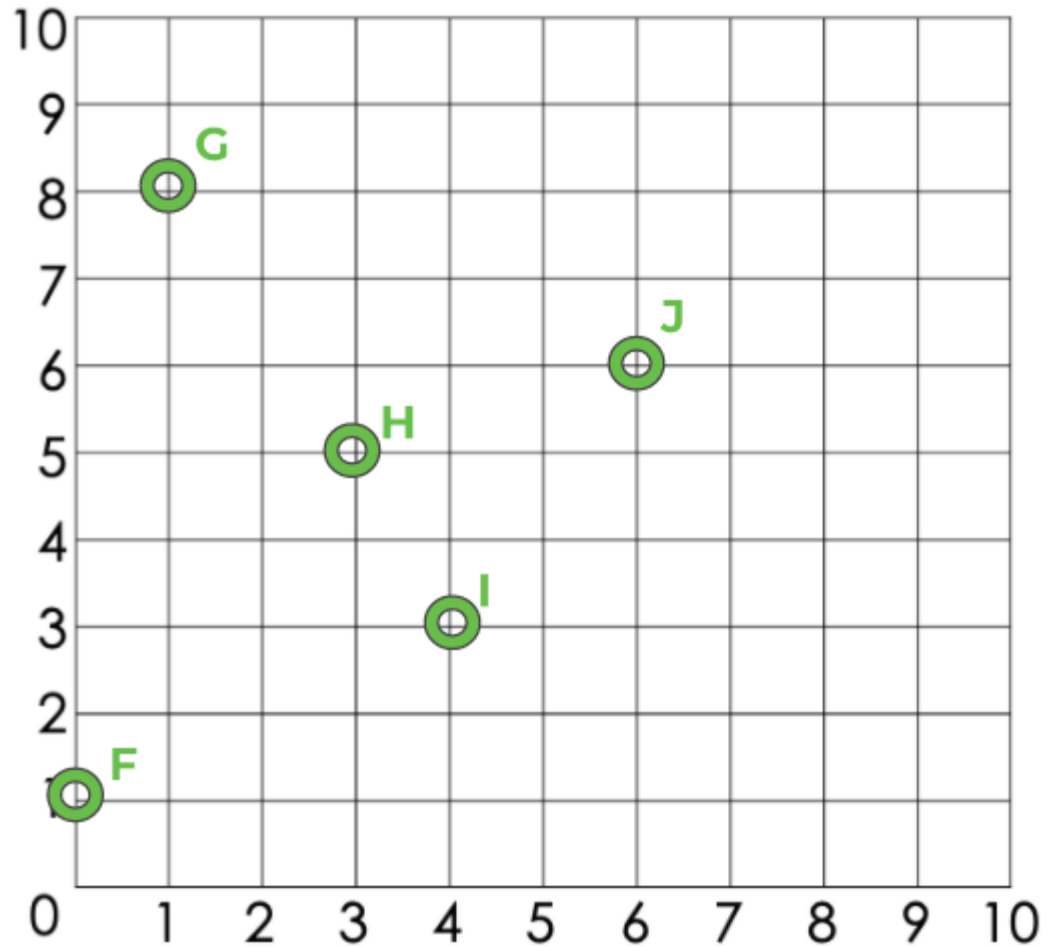


## Session 4

### Main Task




If each of **X** points is translated  $(2, 3)$ , what will all the new positions be?  
If each of the **O** points are translated  $(4, 1)$  what will the new positions be?  
Write the final coordinates for each.

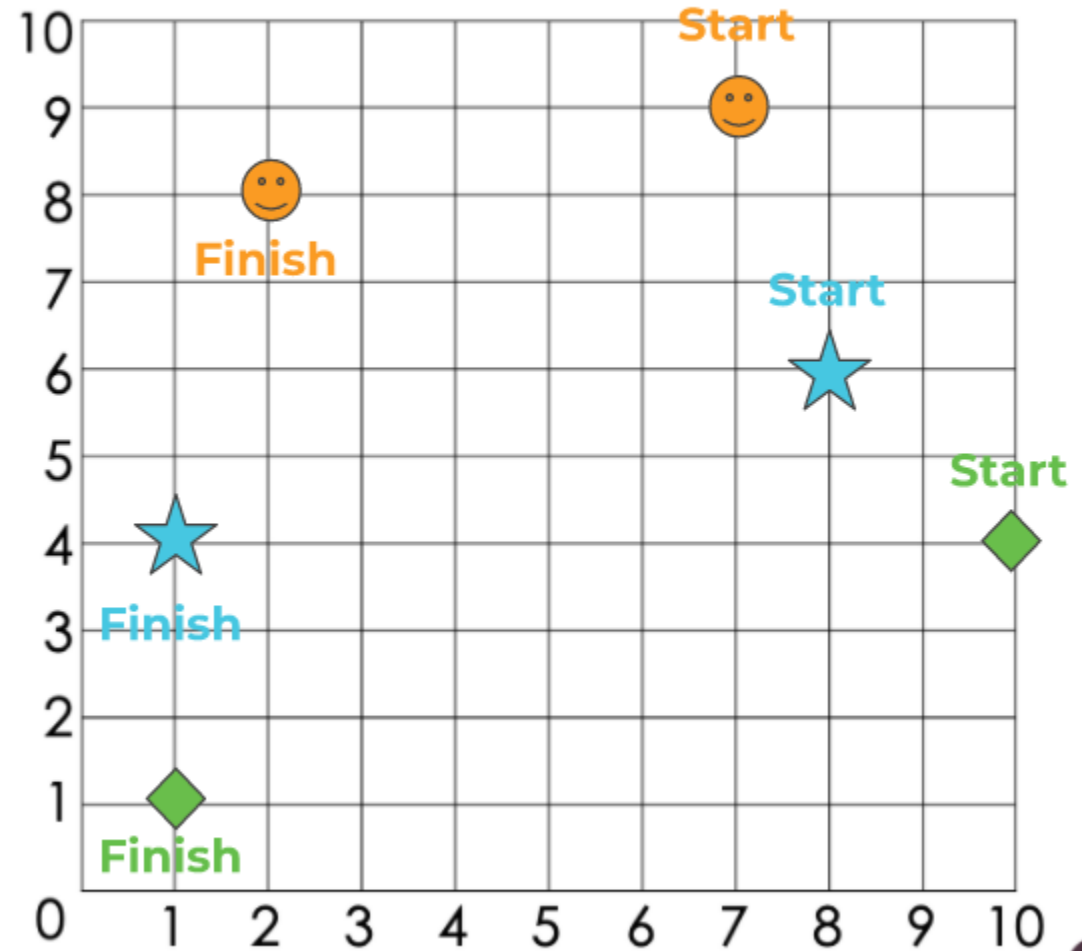
Point	Final coordinate after translation
F	
G	
H	
I	
J	



## Challenge

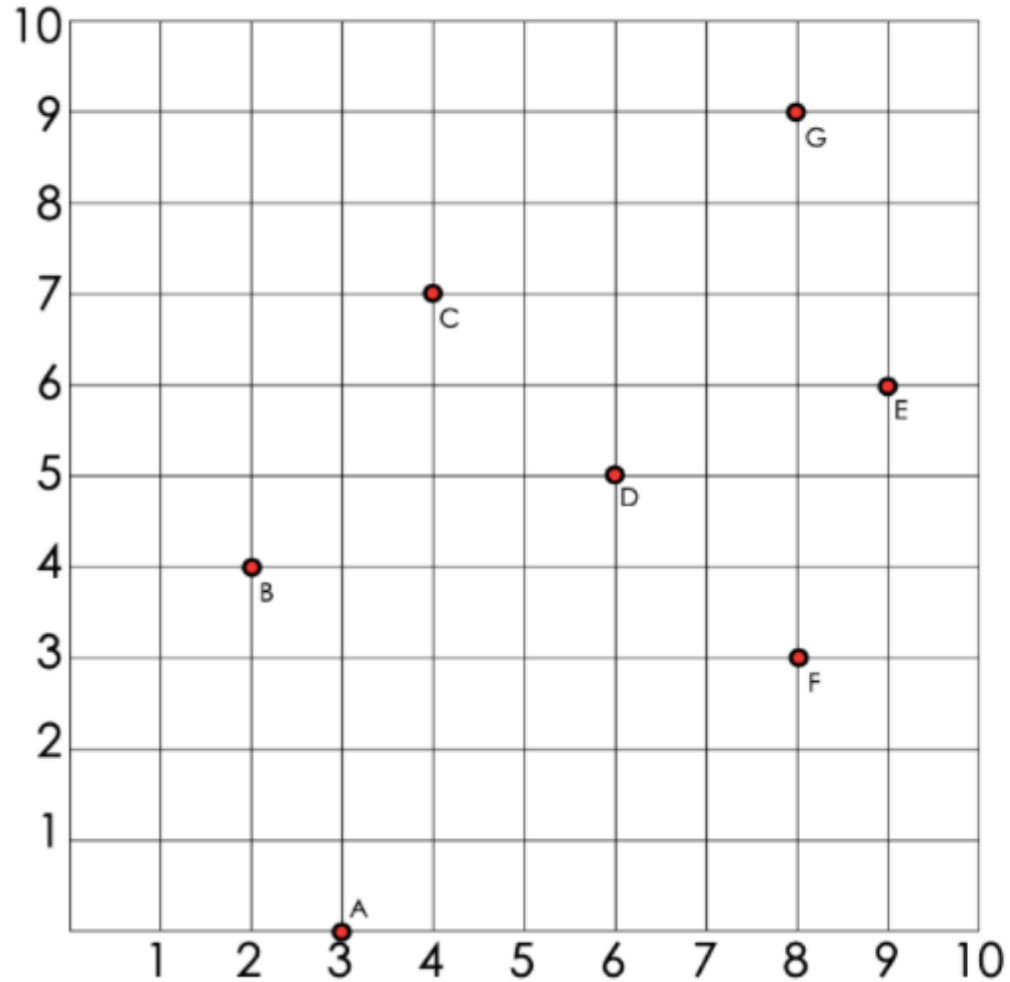
Can you work out the translation for the 3 points on the grid?

symbol	translation
	
	
	



## Moving on

Can you figure out how the points have been translated? The first has been done for you.

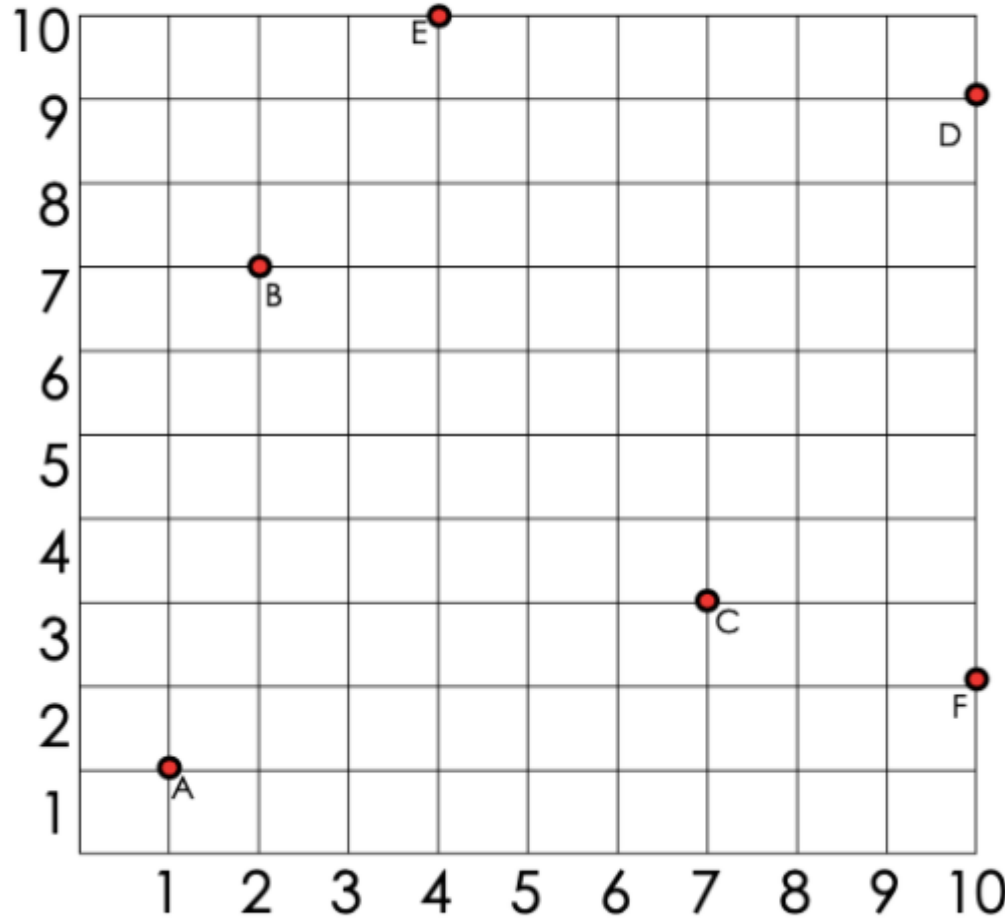


Point	Translation
A to B	<b><math>(-1, 4)</math></b>
B to C	
C to D	
D to E	
E to F	
F to G	
G to A	



## Challenge

These are the final translations of some points. Can you work out where each point started?

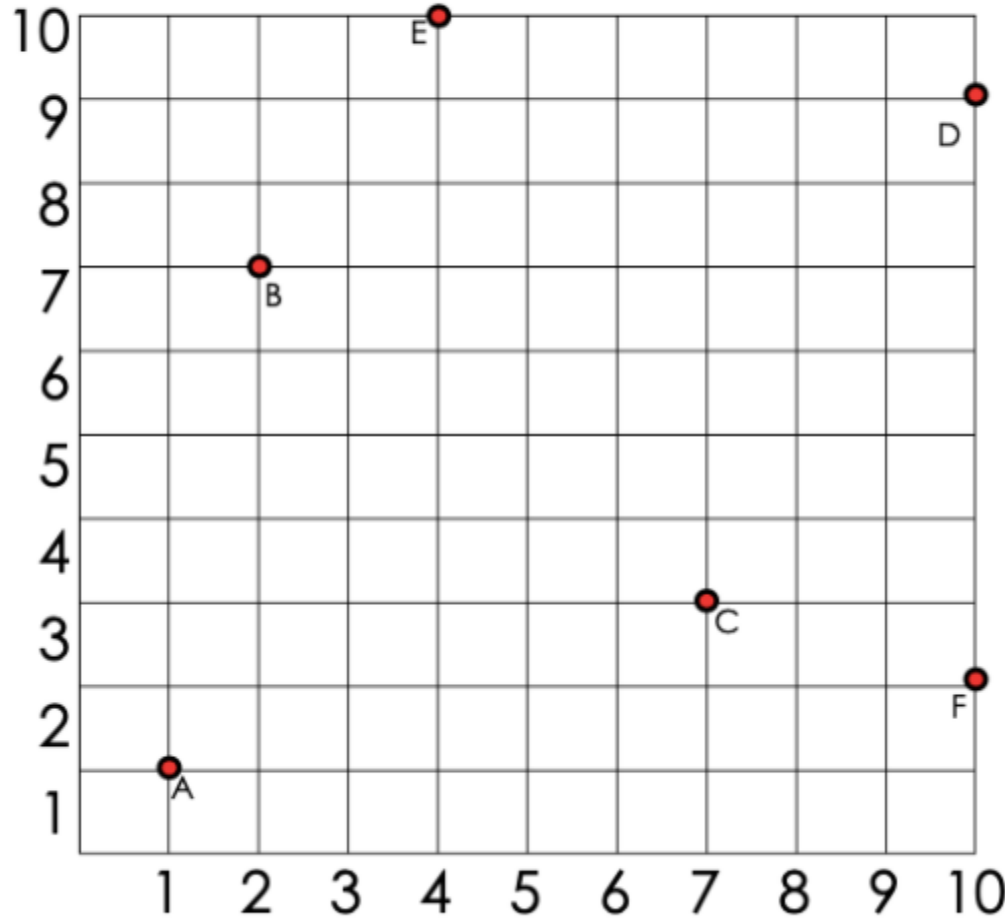


Clue	Start
Point A moves 2 spaces left and 2 down. What were the original coordinates?	
Point B moved 3 spaces left and 2 up. What were the original coordinates?	
Point C moved 1 space right and 3 up. What were the original coordinates?	



## Challenge

These are the final translations of some points. Can you work out where each point started?



Clue	Start
Point D moved 3 spaces right and 0 up. What were the original coordinates?	
Point E moved 9 spaces up and 1 right. What were the original coordinates?	
Point F moved 4 spaces down and 8 right. What were the original coordinates?	

