

Year 4 Maths 7th July
2020

NUMBER PRACTICE

- ▶ Find the total of 4,12,18 and 20
- ▶ Find the difference between 197 and 213
- ▶ Find all the factors of 56
- ▶ Find a number that is a multiple of 3 and 4 and 7.
- ▶ Find the number that is half of 6750

NUMBER PRACTICE answers

- ▶ Find the total of 4,12,18 and 20 **54**
- ▶ Find the difference between 197 and 213 **16**
- ▶ Find all the factors of 56 **1, 2, 4, 7, 8, 14, 28, 56**
- ▶ Find a number that is a multiple of 3 and 4 and 7. **84**
- ▶ Find the number that is half of 6750 **3375**

I CAN PLOT CO-ORDINATES

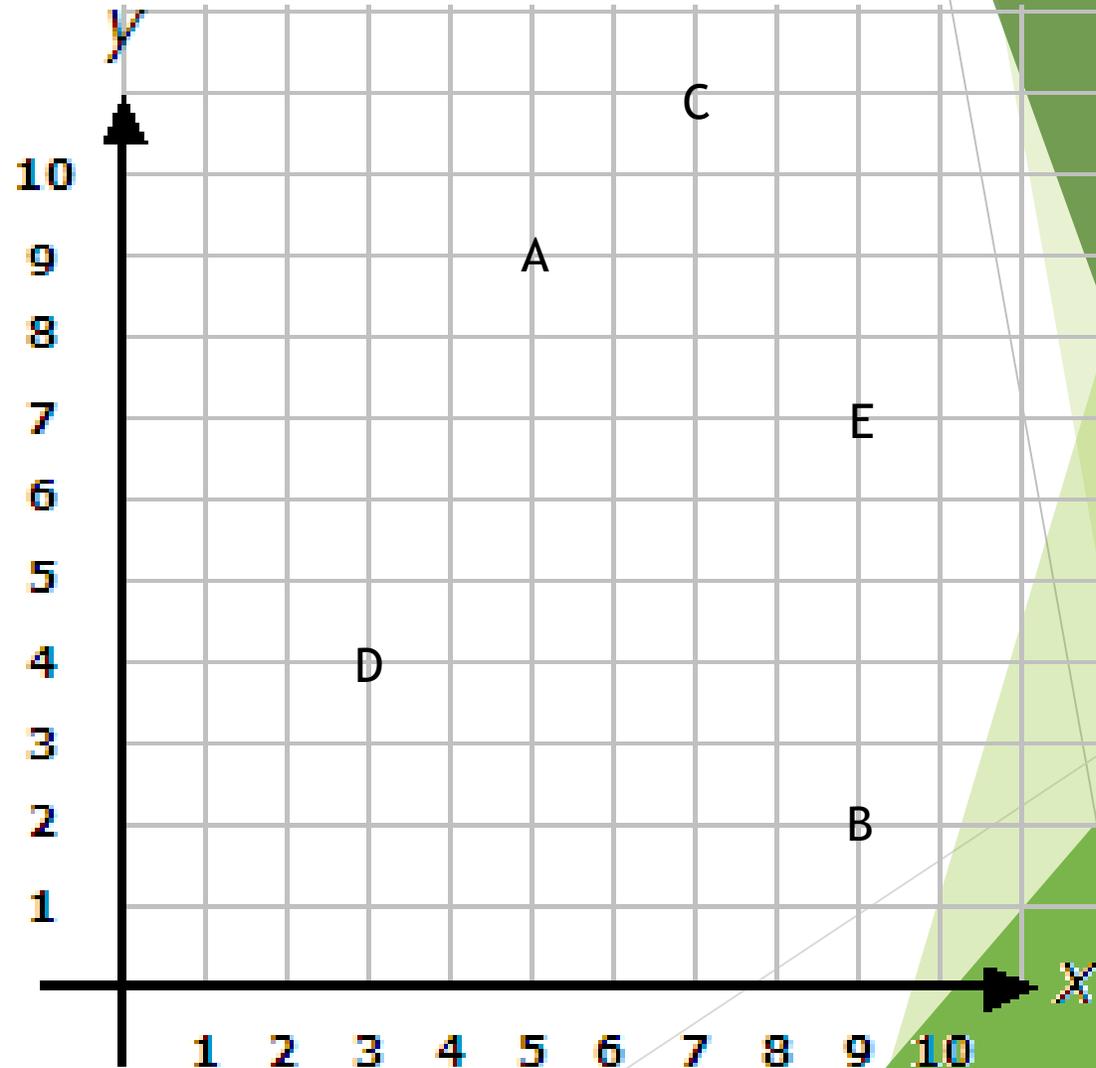
- ▶ SOME WILL EVEN plot a complicated set of co-ordinates to make a picture
- ▶ SOME will use what they know about plotting co-ordinates to investigate and solve problems
- ▶ MOST will give co-ordinates to complete shapes on a grid
- ▶ ALL will plot co-ordinates on a grid

RECALL

Each pair of co-ordinates represents a point on the grid.

Can you label the co-ordinates with the correct letters?

- (3,4)
- (5,9)
- (7,11)
- (9,2)
- (9,7)

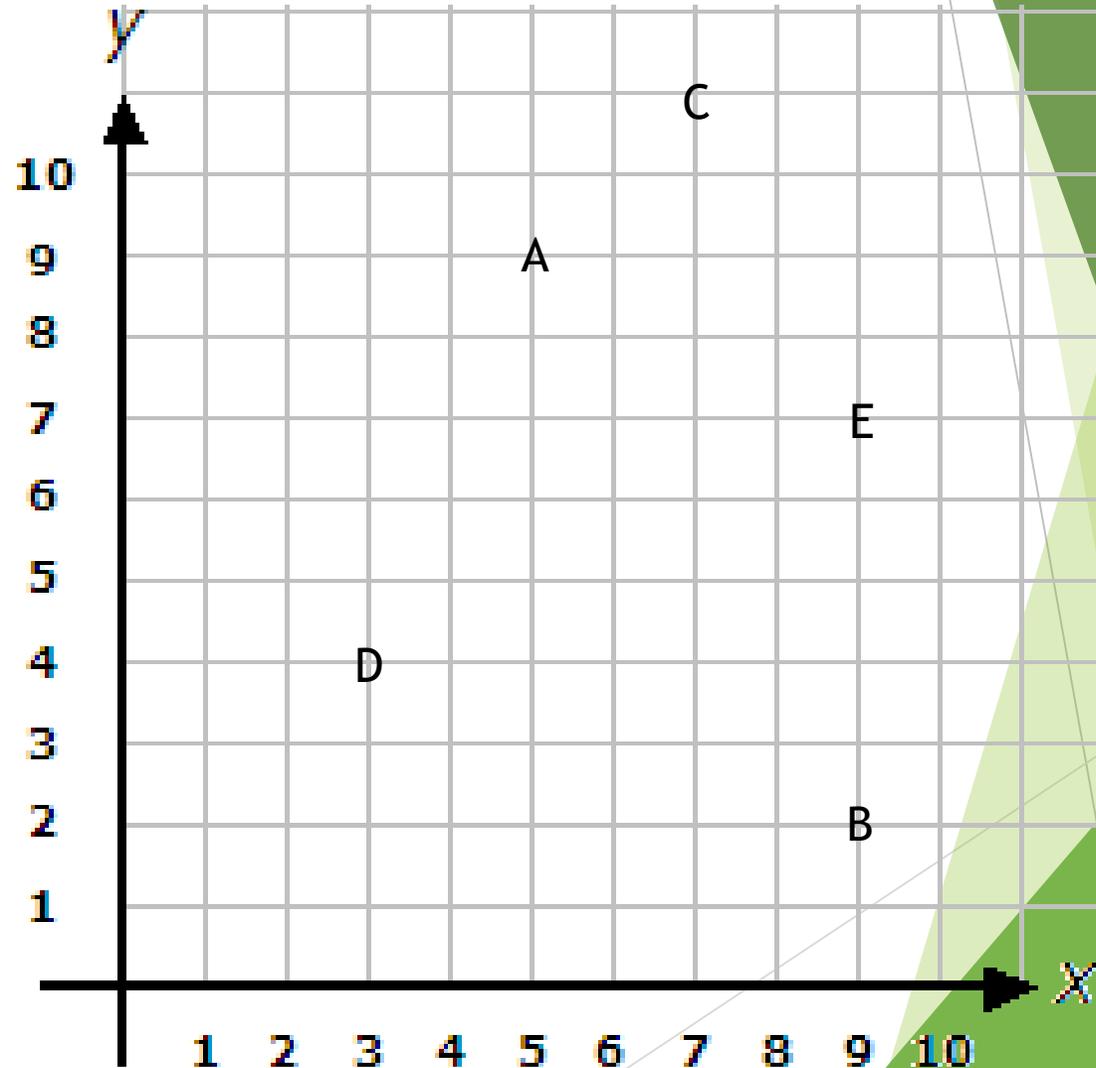


RECALL answers

Each pair of co-ordinates represents a point on the grid.

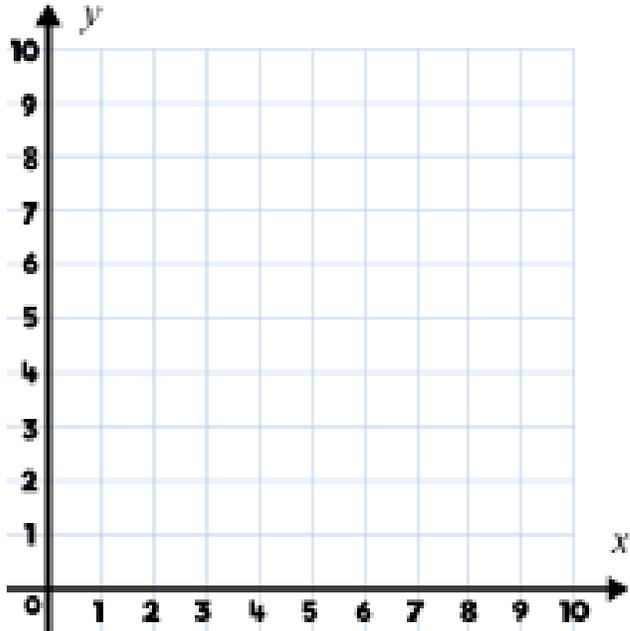
Can you label the co-ordinates with the correct letters?

- (3,4) **D**
- (5,9) **A**
- (7,11) **C**
- (9,2) **B**
- (9,7) **E**



INTELLIGENT PRACTICE

ONE CHILLI

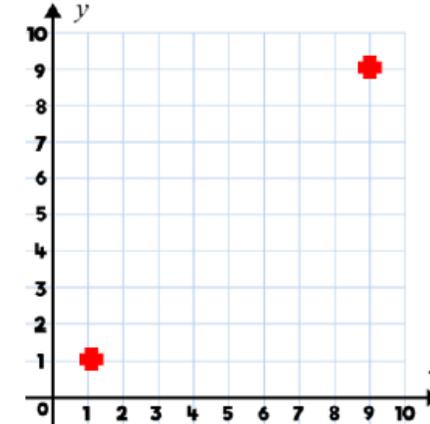
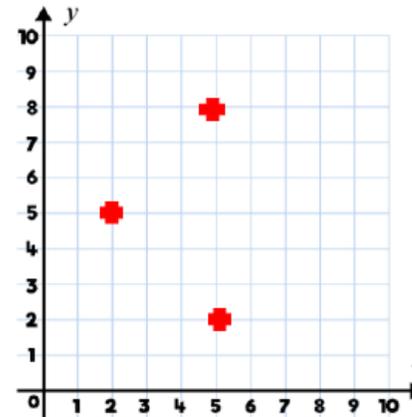


Plot the following co-ordinates on the grid:

(5,6) (7,3) (9,1) (2,8)

TWO CHILLIES

Plot the final points to create squares.



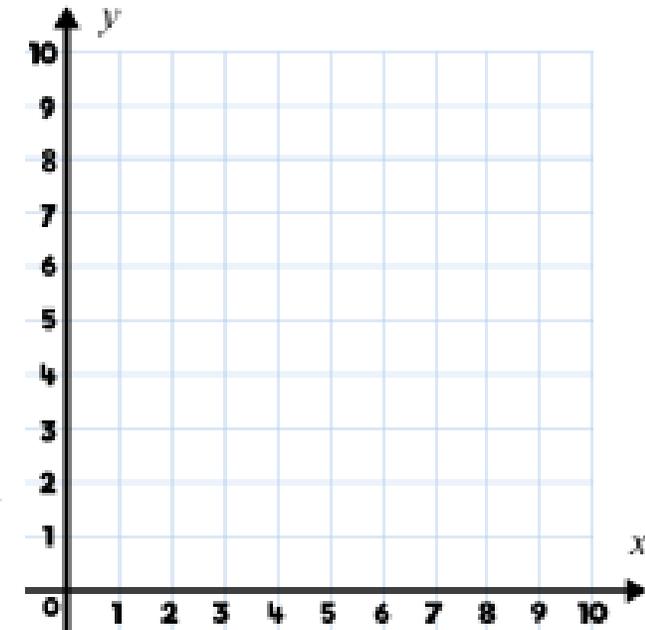
Write the co-ordinates of the points you've added.

THREE CHILLIES

Plot these points on a 2D grid.

(2, 4) (4, 2) (5, 8) (7, 6)

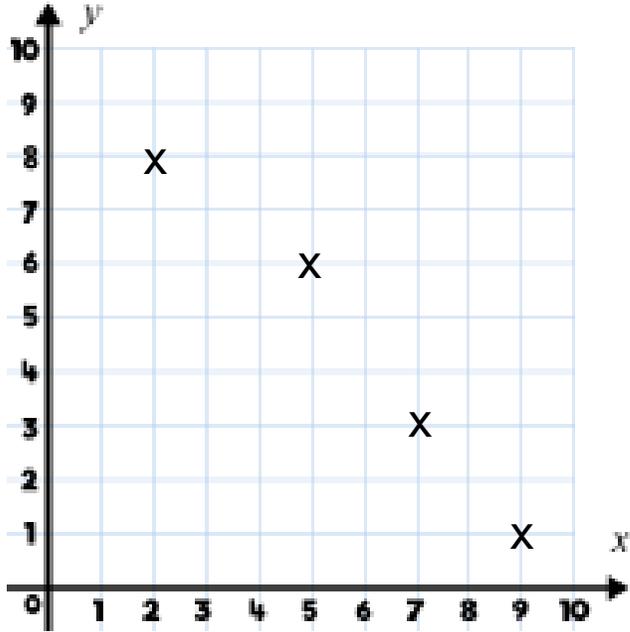
What shape has been created?



INTELLIGENT PRACTICE

answers

ONE CHILLI

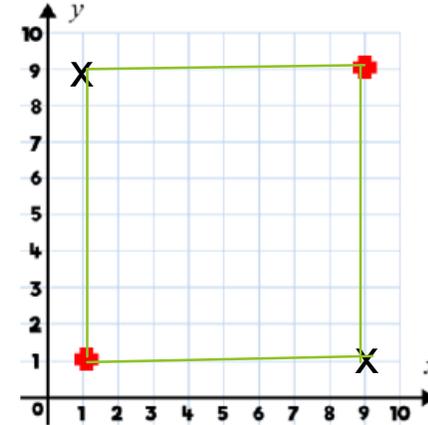
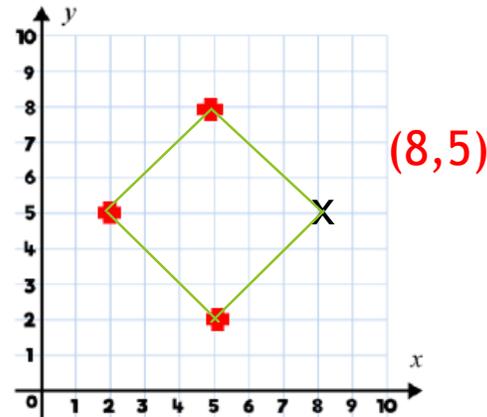


Plot the following co-ordinates on the grid:

(5,6) (7,3) (9,1) (2,8)

TWO CHILLIES

Plot the final points to create squares.



Write the co-ordinates of the points you've added.

(1,9)
(9,1)

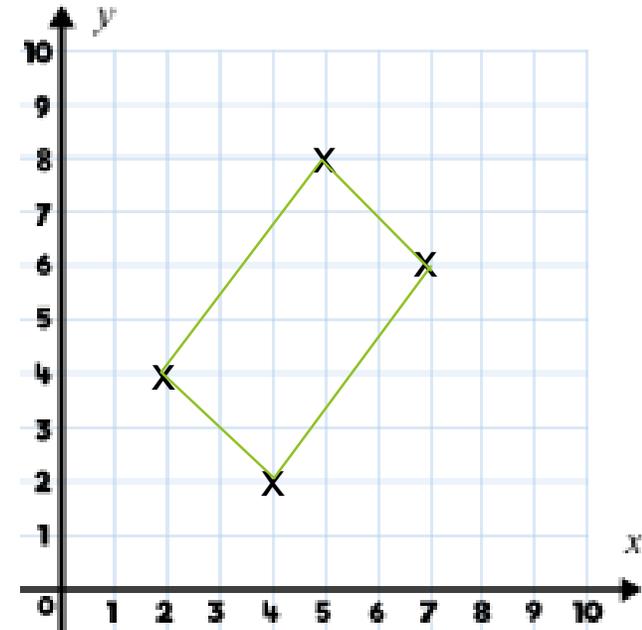
THREE CHILLIES

Plot these points on a 2D grid.

(2, 4) (4, 2) (5, 8) (7, 6)

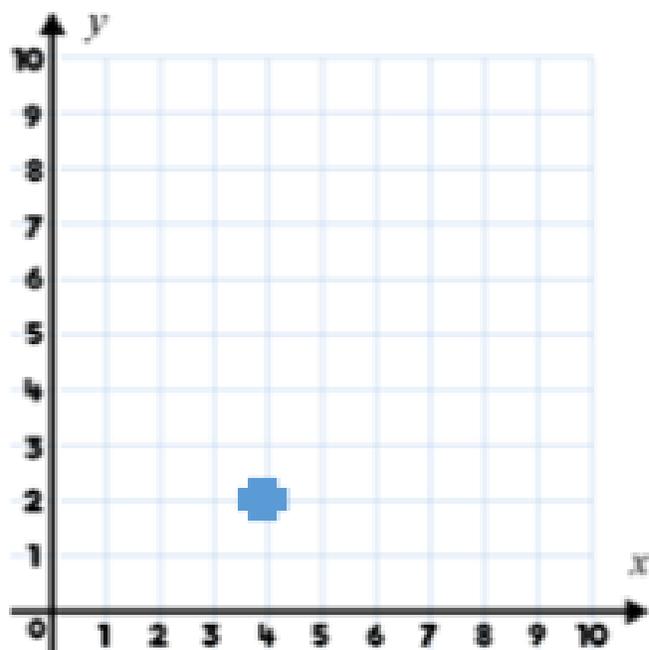
What shape has been created?

Rectangle

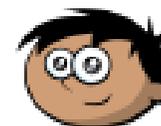


DIVE DEEPER

What shapes could be made by plotting three more points?



When you are plotting a point on a grid it does not matter whether you go up or across first as long as you do one number on each axis.



Arjun

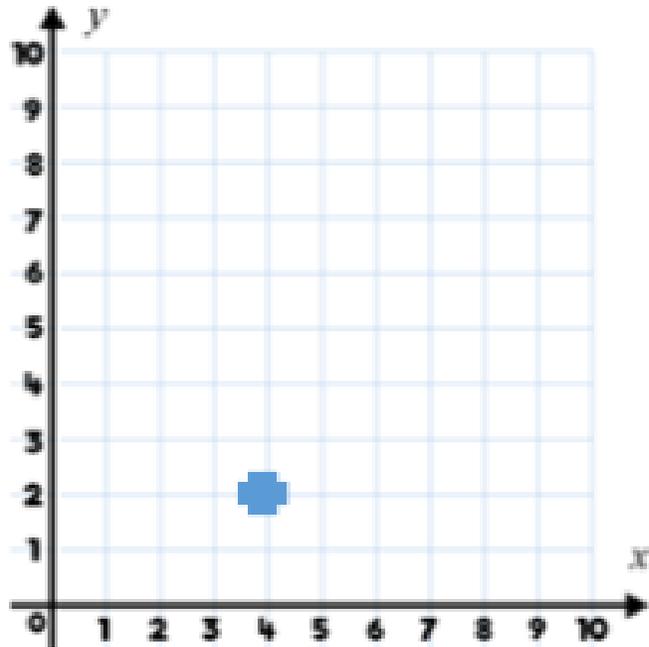
Do you agree with Arjun?
Convince me.

Always, Sometimes, Never.

The number of points plotted is the same number of vertices the shape has.

DIVE DEEPER answers

What shapes could be made by plotting three more points?



You could make various quadrilaterals. Upload your shapes and co-ordinates to ClassDojo for feedback.

When you are plotting a point on a grid it does not matter whether you go up or across first as long as you do one number on each axis.



Arjun

Do you agree with Arjun?
Convince me.

Arjun is wrong. The X axis must always be plotted before the Y axis. You can prove this by plotting a pair of co-ordinates both ways and showing the difference.

Always, Sometimes, Never.

The number of points plotted is the same number of vertices the shape has.

Sometimes. If points are plotted in a straight line they will not create a vertex (corner).

DIVE DEEPER 2

- ▶ Use the 20 x 30 grid provided.
- ▶ Follow the instructions to make a picture of Bart Simpson.
- ▶ In each section, join each coordinate to the next one. Each section is a separate part of the picture.
- ▶ Upload your picture to your ClassDojo portfolio!

Section 1

(8,0) (10,2) (9,6) (7,6) (6,7) (4,7) (2,8) (1,9) (2,12) (1,13) (1,15)
(2,16) (1,17) (1,20) (2,21) (2,22) (3,23) (5,30) (6,28) (7,30) (8,28) (9,30)
(10,28) (11,30) (12,28) (13,30) (14,28) (15,30) (16,28) (17,30) (18,28) (20,30) (17,12)

Section 2

(2,16) (6,16) (7,17) (7,16) (8,15) (12,15) (13,16) (13,20) (12,21) (8,21) (7,20) (6,21) (2,21)

Section 3

(6,7) (8,7) (12,8)

Section 4

(15,11) (16,12) (18,12) (19,11) (19,9) (18,8)
(16,8) (15,9)

Section 5

(16,10) (17,11) (18,11) (18,10) (17,9) (16,9)

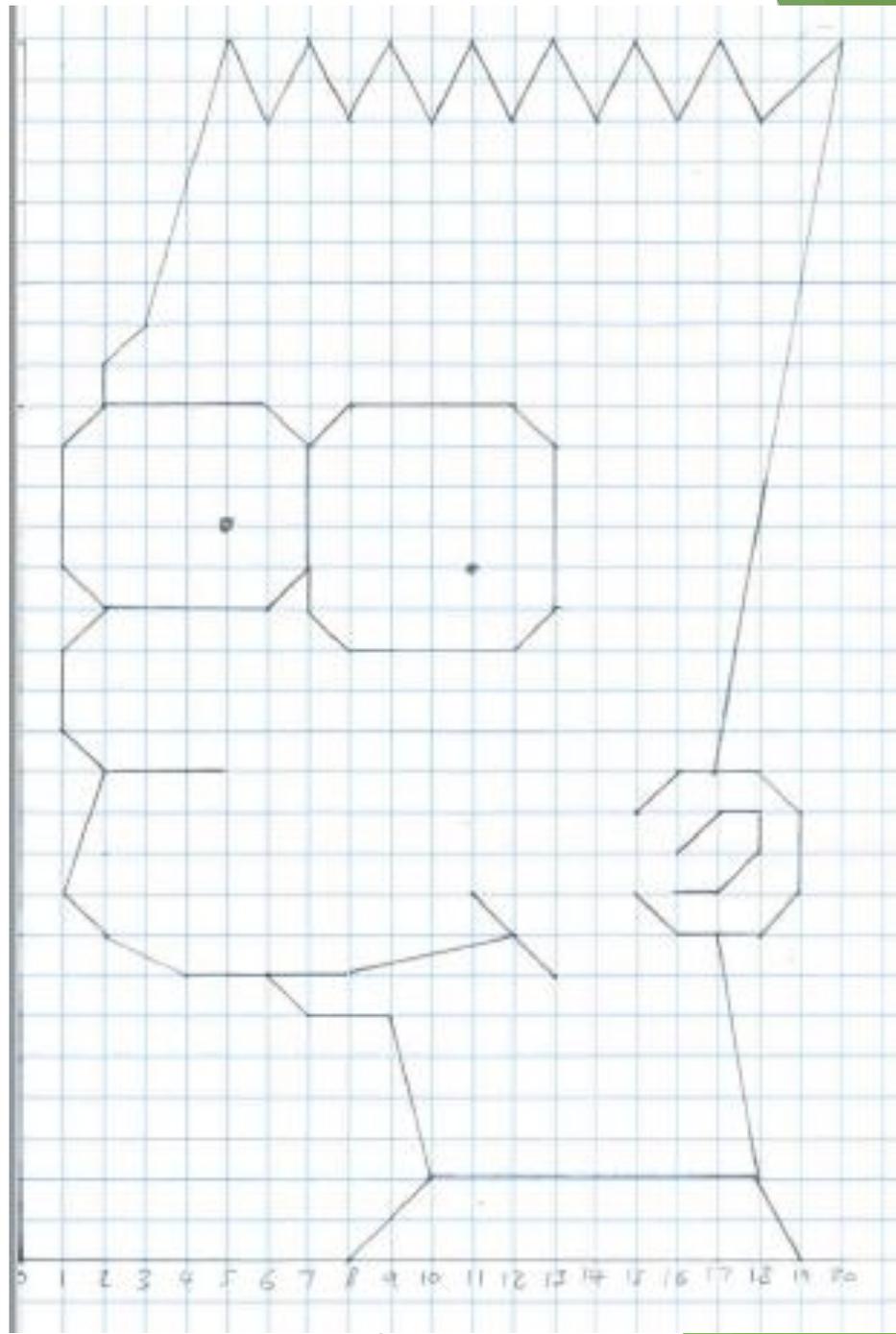
Now join up

(7,17) to (7,20)
(2,12) to (5,12)
(11,9) to (13,7)
(17,8) to (18,2) to (19,0)
(10,2) to (18,2)

Finally put dots at (5,18) and (11,17)

DIVE DEEPER 2 answer

► Your picture should look like this:



Self assessment - how did you do?

I CAN PLOT CO-ORDINATES

- ▶ SOME WILL EVEN plot a complicated set of co-ordinates to make a picture
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