

Monday	Tuesday	Wednesday	Thursday	Friday
Can I investigate patterns and generate a rule?	Assessment task. Submit your answers on Seesaw.		Can I plot and read coordinates on a grid?	Can I plot and read coordinates on a grid in all 4 quadrants?

Link to website / lesson video: <https://youtu.be/v4vXkDHYDyk>

**NEW LEARNING:**

**Things to remember:**  
**Coordinates**

A point on a grid has **two numbers** to identify its position. These numbers are known as coordinates.

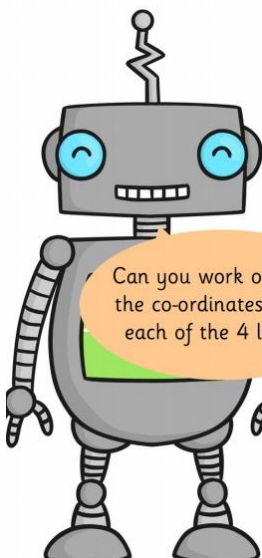
Coordinates are always written as the number of steps across first, then the number of steps up or down.

Grids have **two axes**. The **horizontal axis is called the x-axis** and the **vertical axis is called the y-axis**. These axes can be used to find a point on a grid.

*Read the x then the y axis....along the corridor and up or down the stairs  
Remember when you move a point to the left or down, coordinate will include a negative number too.*

# Co-ordinates in the 4 Quadrants

**Warning!** This work involves negative numbers. Remember to follow the same rules for creating co-ordinates – x before y.

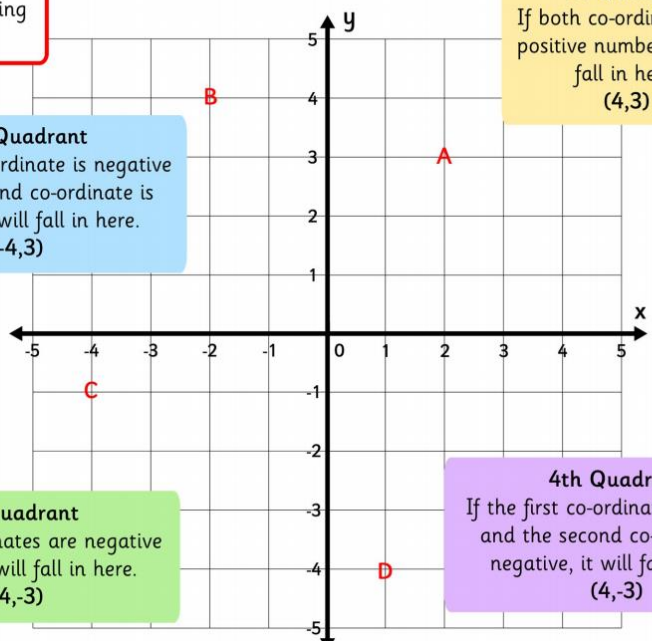


**2nd Quadrant**  
If the first co-ordinate is negative and the second co-ordinate is positive, it will fall in here.  
(-4,3)

**3rd Quadrant**  
If both co-ordinates are negative numbers, it will fall in here.  
(-4,-3)

**1st Quadrant**  
If both co-ordinates are positive numbers, it will fall in here.  
(4,3)

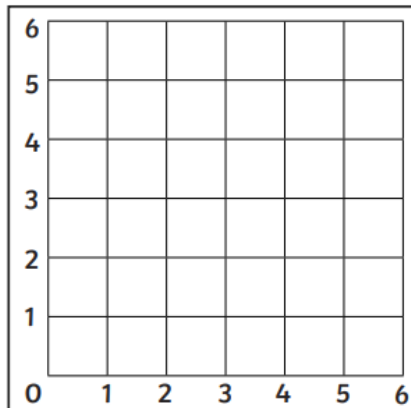
**4th Quadrant**  
If the first co-ordinate is positive and the second co-ordinate is negative, it will fall in here.  
(4,-3)



## INDEPENDENT TASK

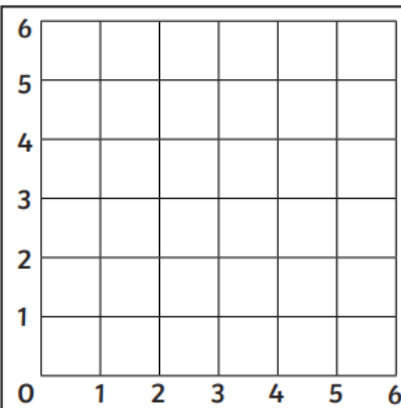
### TO START

Read the co-ordinates and name the shape.



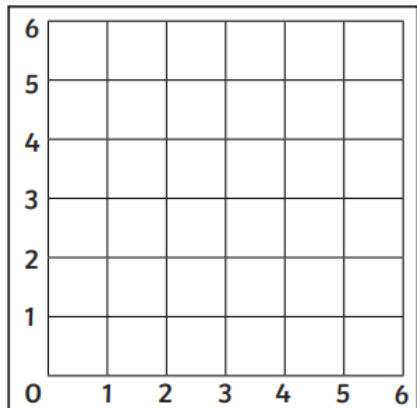
1. (1,1) (5,1) (5,5) (1,5)

Polygon =



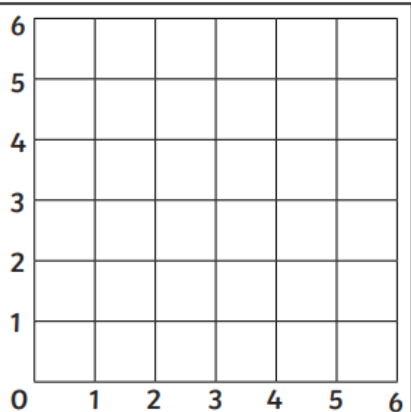
2. (1,3) (5,3) (5,5) (1,5)

Polygon =



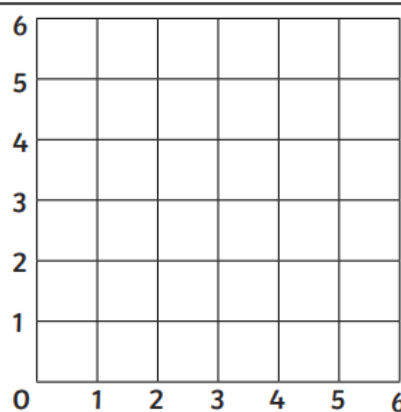
3. (0,3) (3,6) (6,3) (3,0)

Polygon =



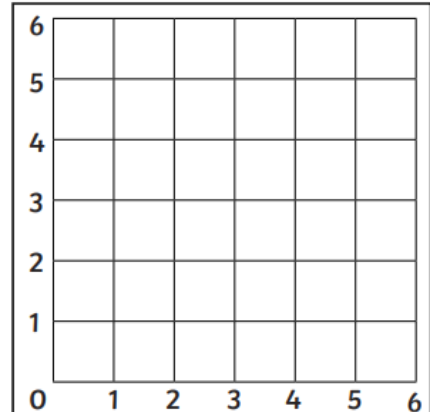
4. (2,6) (4,6) (4,0) (2,0)

Polygon =



5. (1,1) (6,5) (6,1)

Polygon =



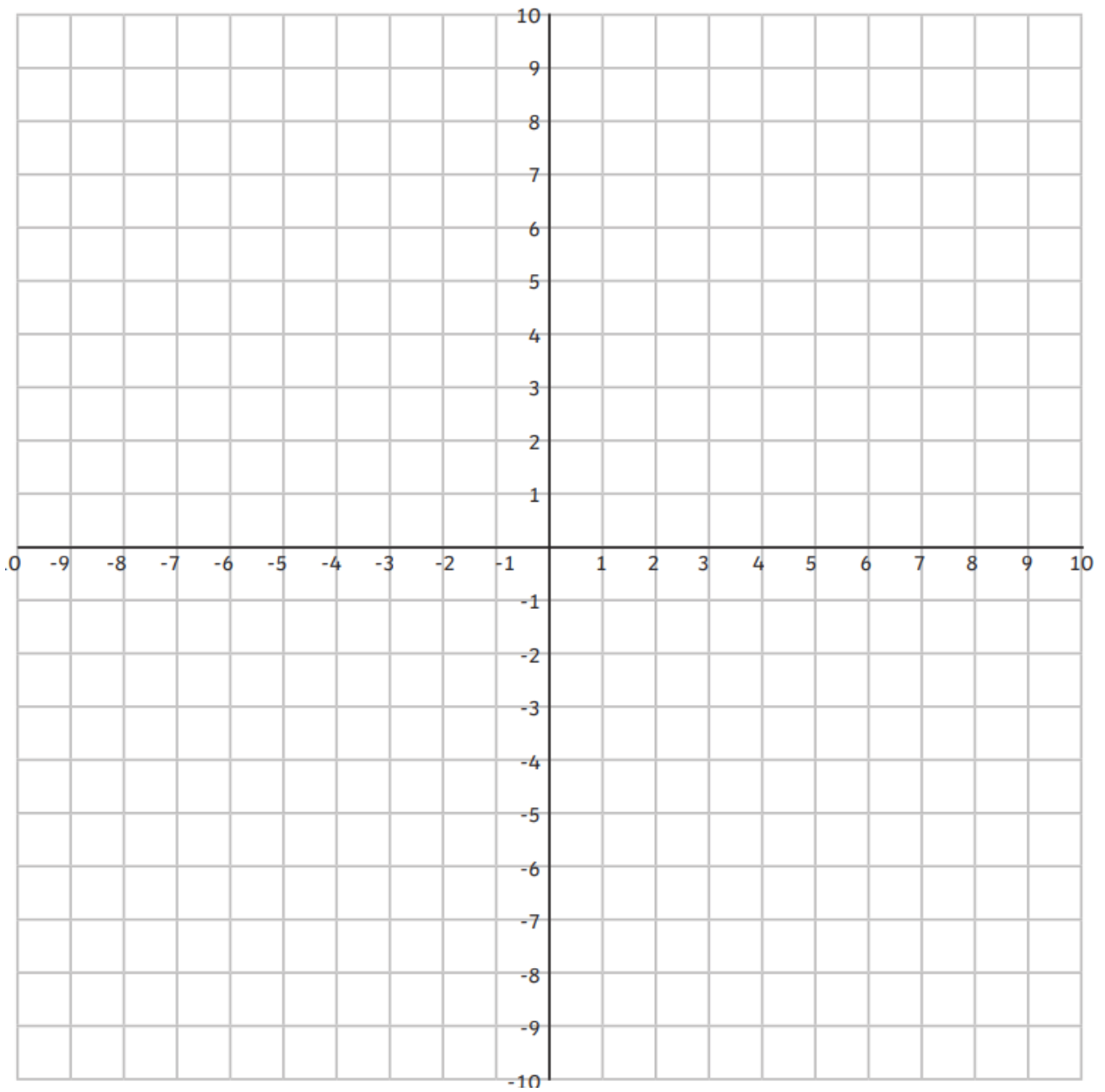
6. (1,4) (3,5) (5,4) (4,2) (2,2)

Polygon =



## MOVING ON

Plot the coordinates into the grid and then name each shape.

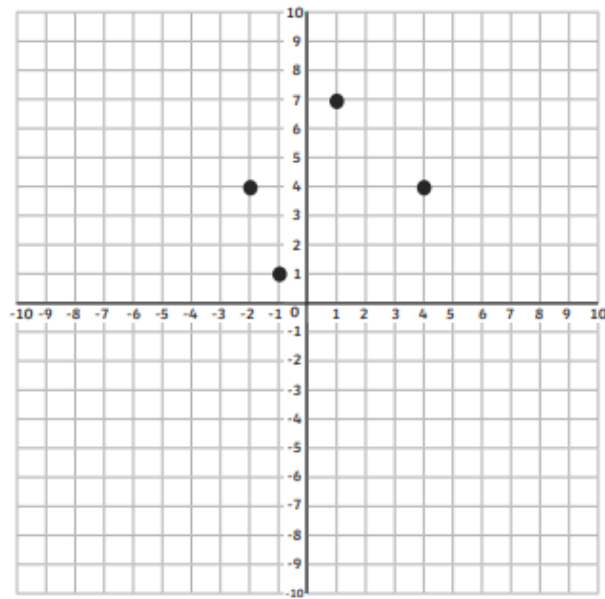


- A.  $(2,2)$   $(8,2)$   $(8,-2)$   $(2,-2)$   $(2,2)$  \_\_\_\_\_
- B.  $(-7,5)$   $(-7,8)$   $(-3,5)$   $(-7,5)$  \_\_\_\_\_
- C.  $(-7,-2)$   $(-9,-4)$   $(-7,-6)$   $(-5,-4)$   $(-7,-2)$  \_\_\_\_\_
- D.  $(5,-4)$   $(3,-6)$   $(5,-9)$   $(7,-6)$   $(5,-4)$  \_\_\_\_\_
- E.  $(4,9)$   $(2,6)$   $(7,6)$   $(9,9)$   $(4,9)$  \_\_\_\_\_

## CHALLENGE

Complete these:

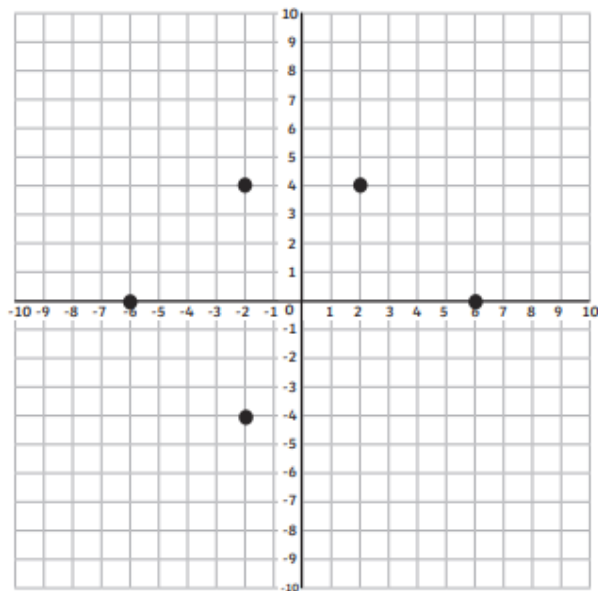
Missing Coordinate  
Polygons



Plot the missing coordinate to make a **pentagon**.  
Complete the drawing and write the missing coordinate ( , ).

twinkl.com

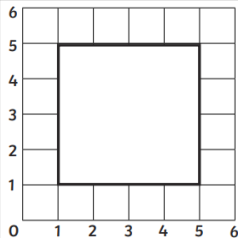
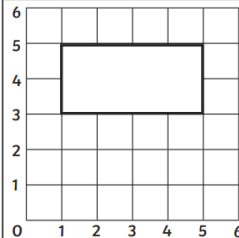
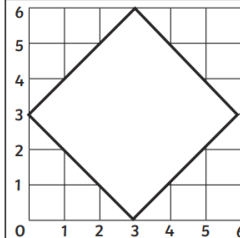
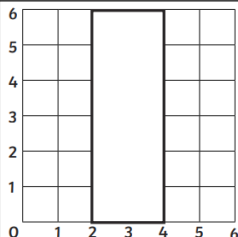
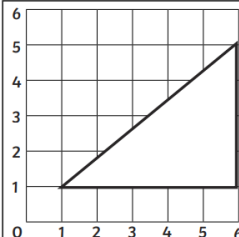
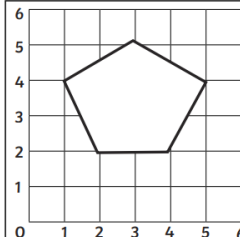
Missing Coordinate  
Polygons



Plot the missing coordinate to make a **hexagon**.  
Complete the drawing and write the missing coordinate ( , ).

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**Check the next page for the answers.**

Question	Answer	Correct	Incorrect				
<b>To start</b>							
<b>a</b>							
	1. (1,1)(5,1)(5,5)(1,5) Polygon = <i>Square</i>	2. (1,3)(5,3)(5,5)(1,5) Polygon = <i>Rectangle</i>	3. (0,3)(3,6)(6,3)(3,0) Polygon = <i>Square</i>				
							
	4. (2,6)(4,6)(4,0)(2,0) Polygon = <i>Rectangle</i>	5. (1,1)(6,5)(6,1) Polygon = <i>Right-Angled Triangle</i>	6. (1,4)(3,5)(5,4)(4,2)(2,2) Polygon = <i>Irregular Pentagon</i>				
	<b>Moving On</b>						
	<b>1</b>	A. (2,2) (8,2) (8,-2) (2,-2) (2,2) <b>rectangle</b> B. (-7,5) (-7,8) (-3,5) (-7,5) <b>right-angled triangle</b> C. (-7,-2) (-9,-4) (-7,-6) (-5,-4) (-7,-2) <b>square</b> D. (5,-4) (3,-6) (5,-9) (7,-6) (5,-4) <b>kite</b> E. (4,9) (2,6) (7,6) (9,9) (4,9) <b>parallelogram</b>					
<b>Challenge</b>							
<b>1</b>	Various answers as long as the shape has <b>5</b> sides						
<b>2</b>	Various answers as long as the shape has <b>6</b> sides						

What did I find easy?

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What did I find difficult?

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