

Measurement and Geometry: Location and Transformation: Coordinate Polygons

Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Description from the Australian Curriculum.

Y5 – Measurement and Geometry, Location and Transformation













Use a grid reference system to describe locations. Describe routes using landmarks and directional language (ACMMG113)

Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries (ACMMG114)

Child-Friendly Aim: To plot coordinates to draw polygons.	Success Criteria: I can label the x-axis and y-axis. I know that a coordinate is represented by two numbers in brackets, separated by a comma. I can read a coordinate correctly by going along and then up.	Resources: Lesson Pack
Key/New Words: Coordinate, axis, quadrant, polygon.	Preparation: Coordinate Squares Resource Sheet - per pair Differentiated Coordinate Polygons Activity Sheets - per child Sheepdog Championship Resource Sheet - per group (max 6)	

Prior Learning: It will be helpful if children know how to read and write coordinates accurately.

Learning Sequence

	Wizard Potions: Using the interactive slides on the Lesson Presentation , the children are challenged to collect the ingredients for the wizard's potion by clicking on the correct position on the 2D grid for the coordinate given.	
	Reading, Writing and Plotting Coordinates: Use the information and images on the Lesson Presentation to rehearse that a coordinate is a way to locate a position on a map or graph by indicating how many units along, and how many units up the position is. Recap the features of coordinates and how they are recorded inside brackets, separated by a comma. Emphasise at all times the importance of reading and writing coordinates in the correct order (along then up).	
	Coordinate Squares: The children work together in their pairs to plot the given coordinates of four different size squares on the Coordinate Squares Resource Sheet .	
	Spot the Mistake: Using the Lesson Presentation , look at the shapes plotted on the grid from the given coordinates and discuss which coordinate has been incorrectly plotted and why the mistake may have been made.	
	Coordinate Polygons: Children complete the differentiated Coordinate Polygons Activity Sheets ; to demonstrate they can plot coordinates to draw polygons. Can the children plot coordinates on a grid to draw polygons?	
	Sheepdog Championship: Using the Sheepdog Championship Resource Sheet , the children take it in turns to take a card off the pile and plot the given coordinates on their game board. They have successfully rounded up all the sheep within in the shape they have made by the points they have plotted. The player who has rounded up the most sheep wins!	

Masterit

Enlargeit: Using string, go large scale and plot the coordinates of a shape on large grid. Link to work on perimeter and area.

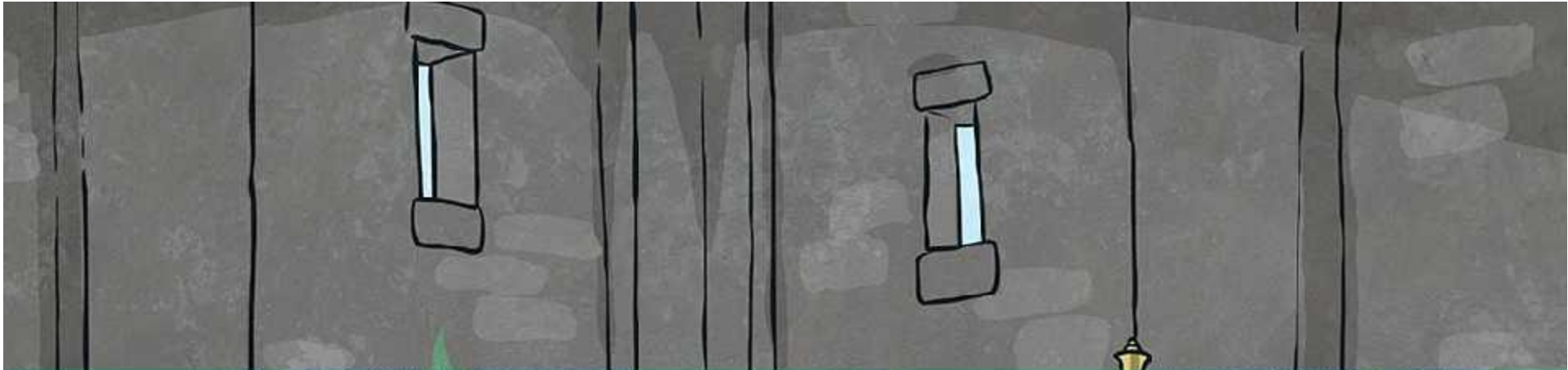
Alphabetit: Investigate plotting capital letters on a coordinate grid and recording the coordinate positions.

Pictureit: Try designing pictures on a coordinate grid and writing the coordinate positions for a friend to follow.



Mathematics

Measurement and Geometry



Coordinate Polygons



Aim

- To plot coordinates to draw polygons.

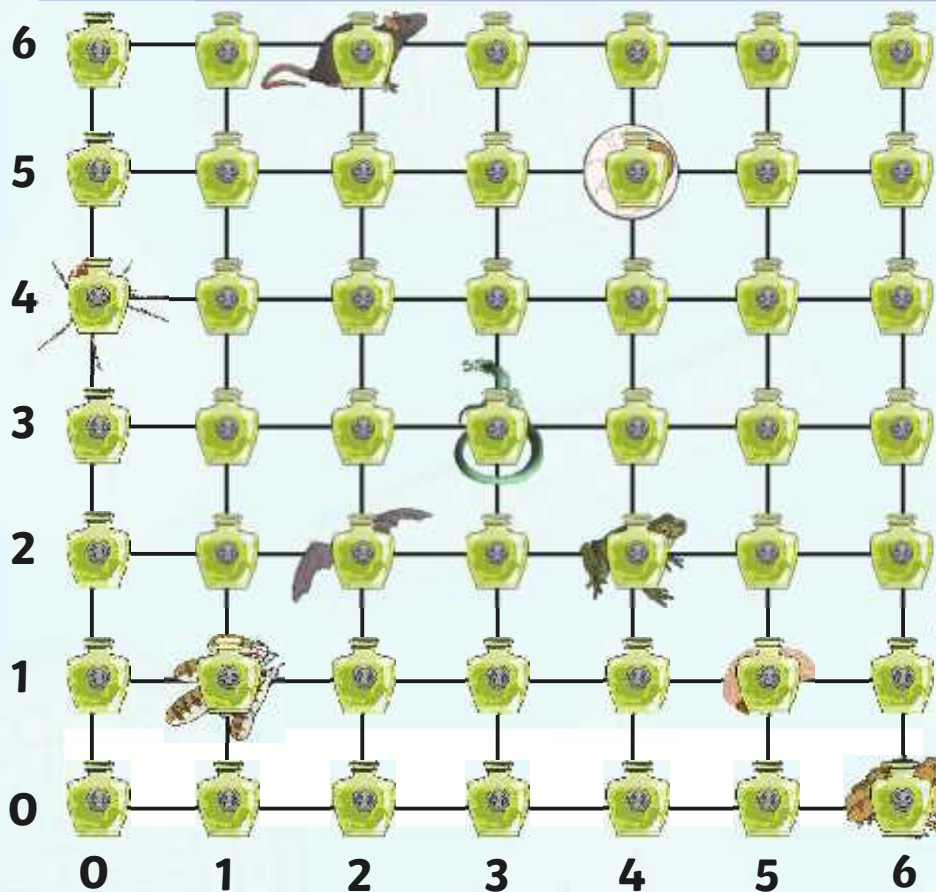
Success Criteria

- I can label the x-axis and y-axis.
- I know that a coordinate is represented by two numbers in brackets, separated by a comma.
- I can read a coordinate correctly by going along then up.

Wizard Potions



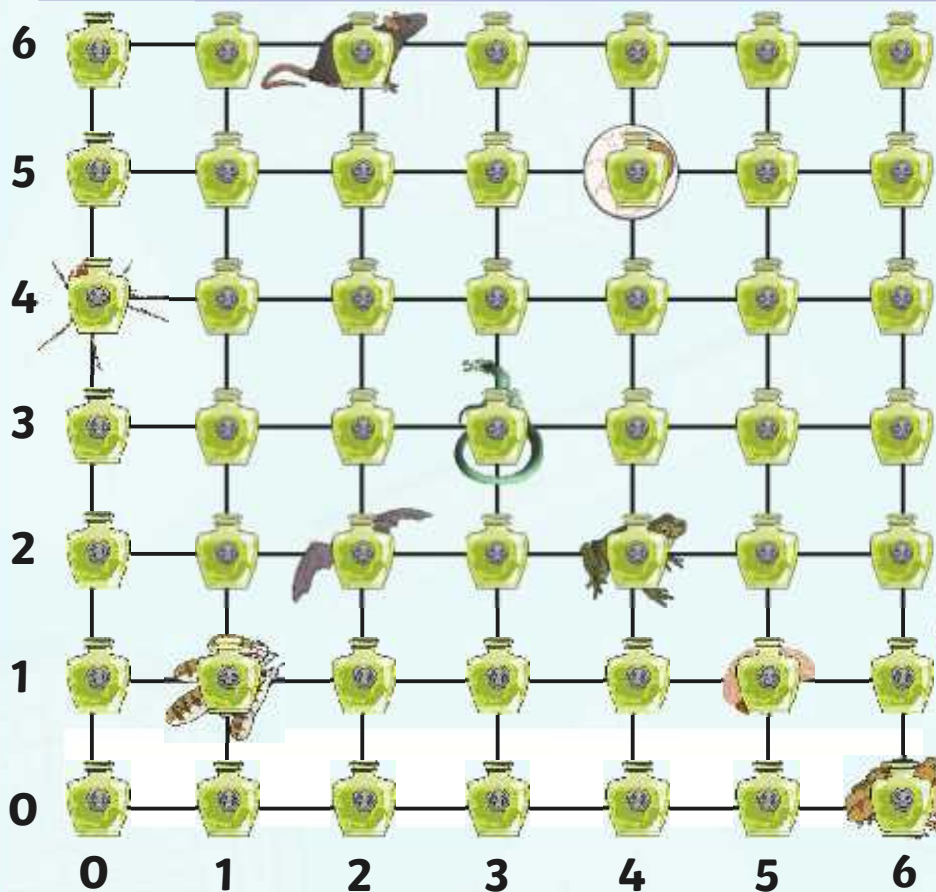
Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



Wizard Potions



Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



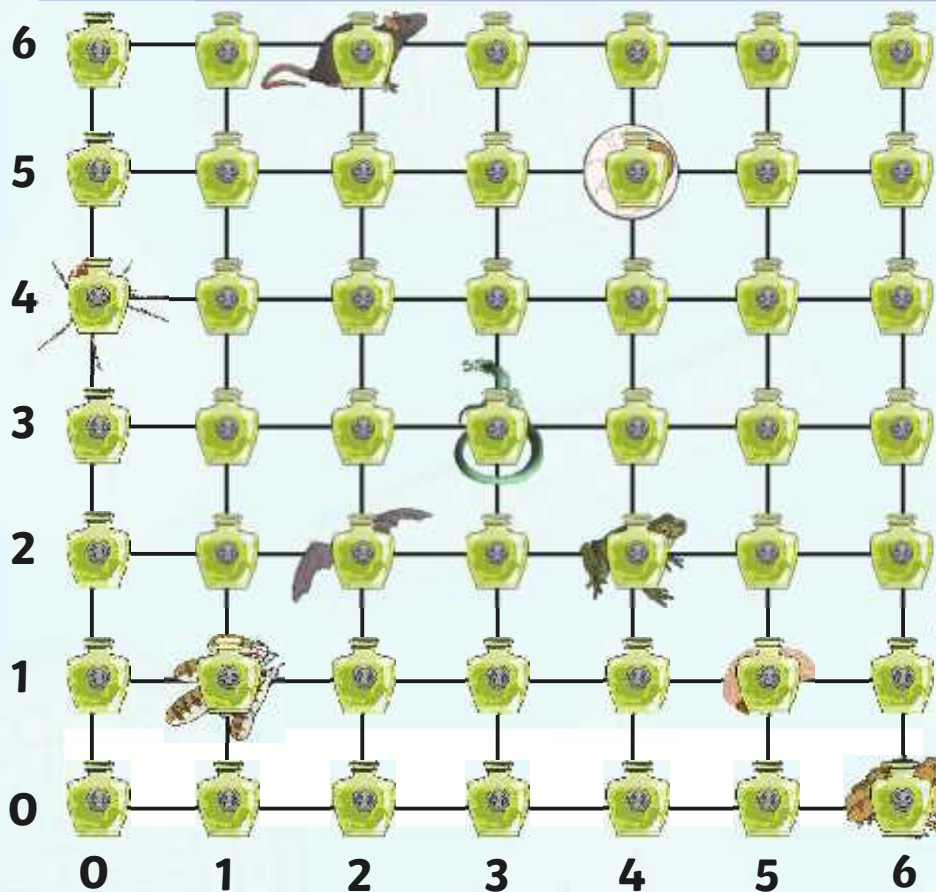
Rat's Tail
(2,6)



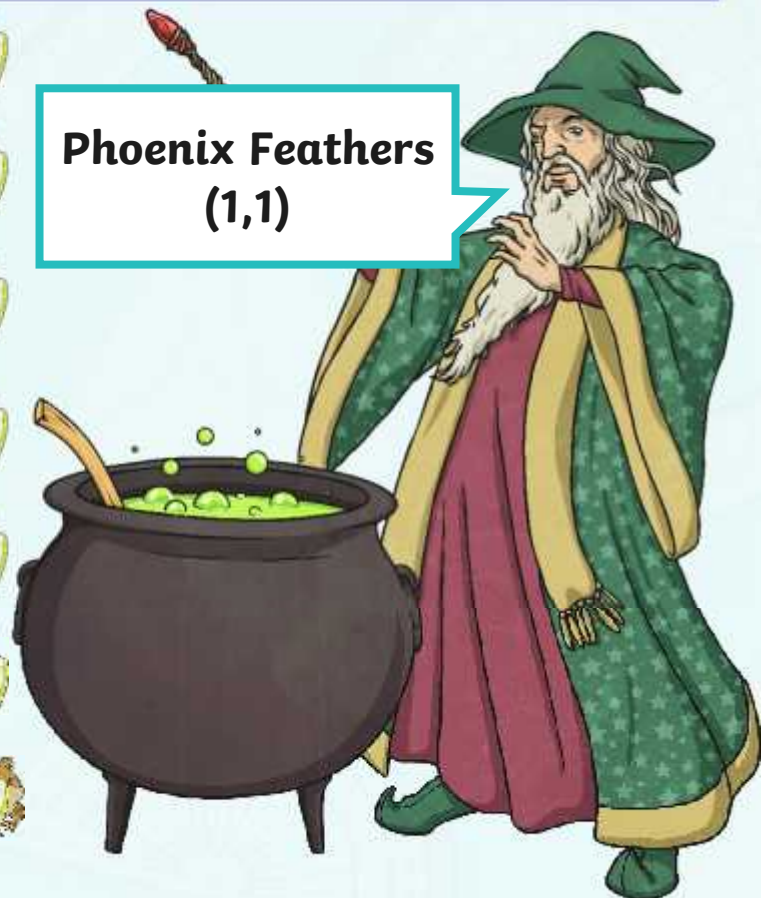
Wizard Potions



Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



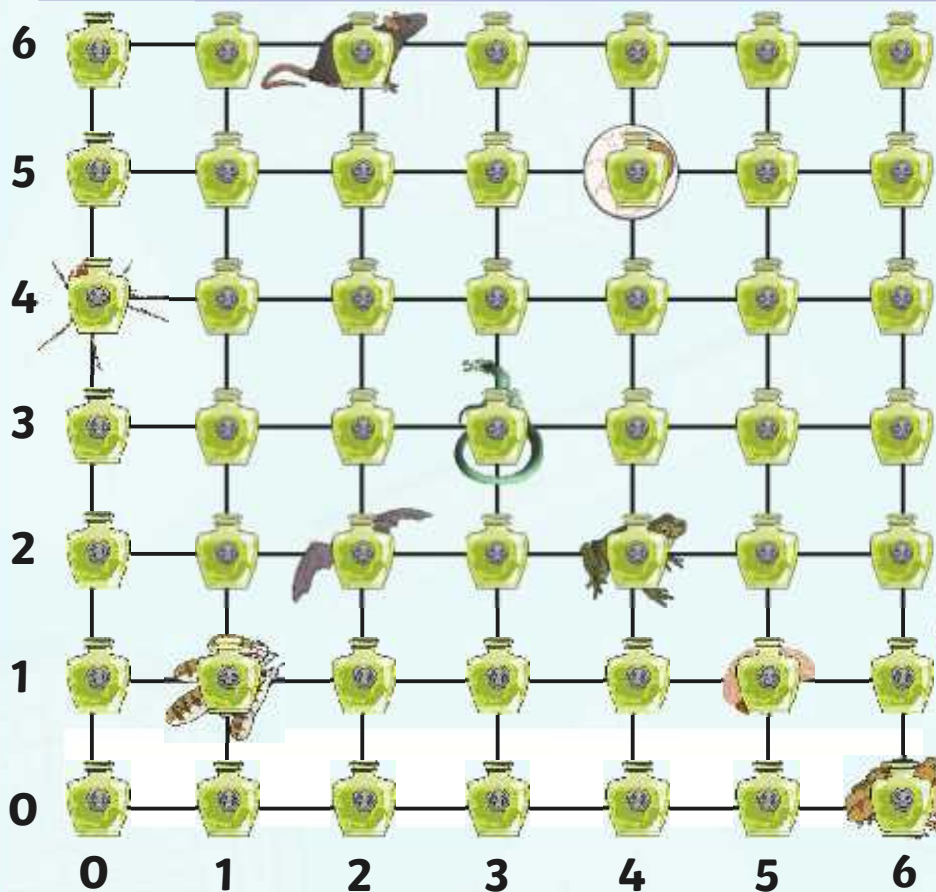
Phoenix Feathers
(1,1)



Wizard Potions



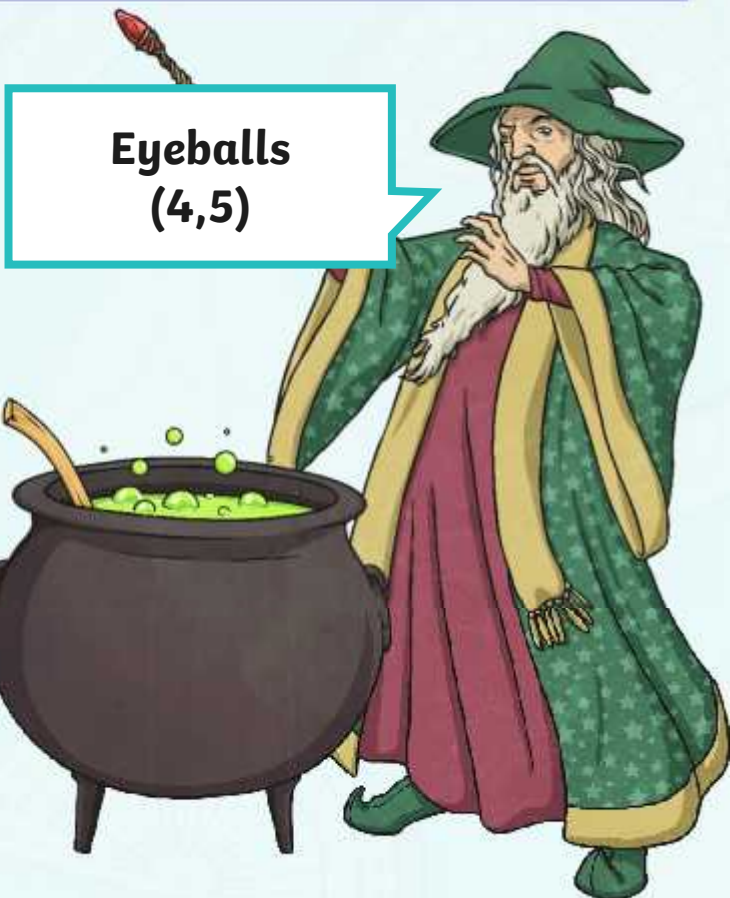
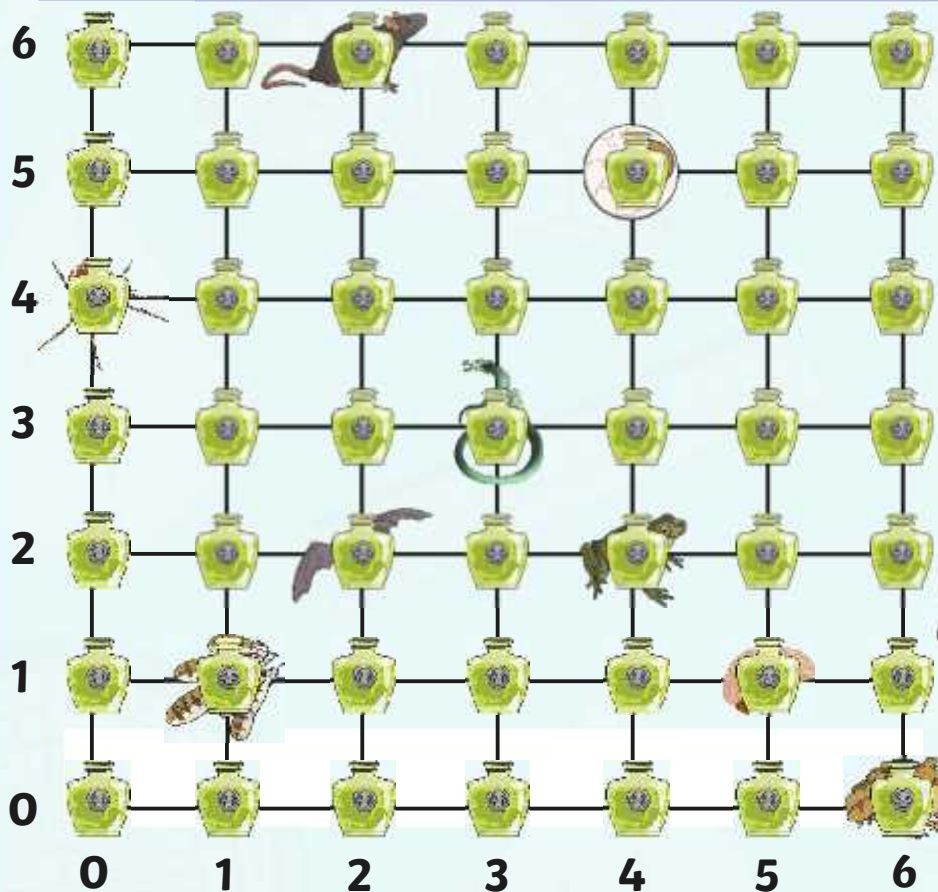
Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



Wizard Potions



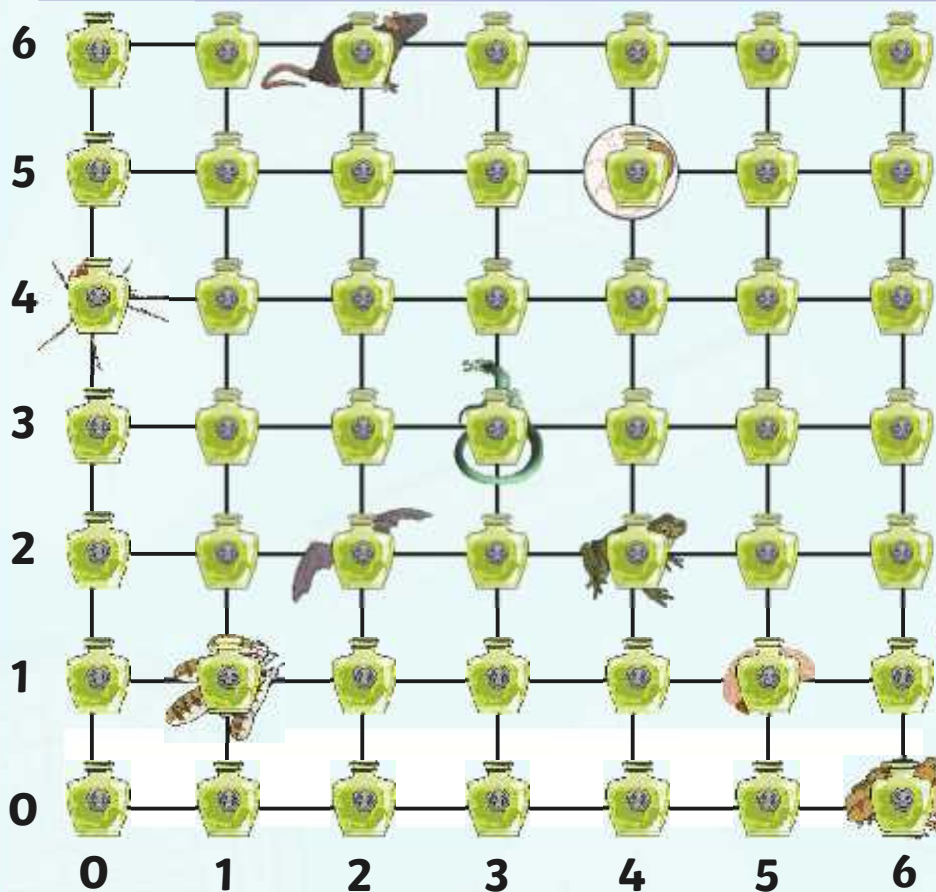
Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



Wizard Potions



Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



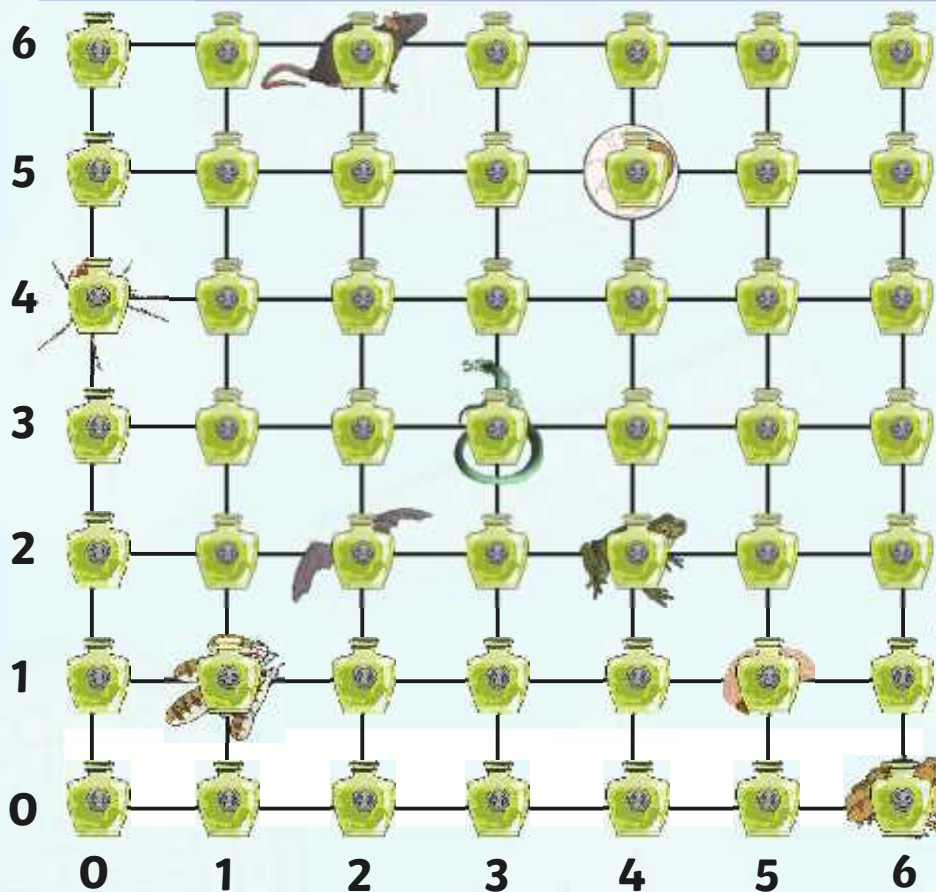
Bat Wings
(2,2)



Wizard Potions



Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



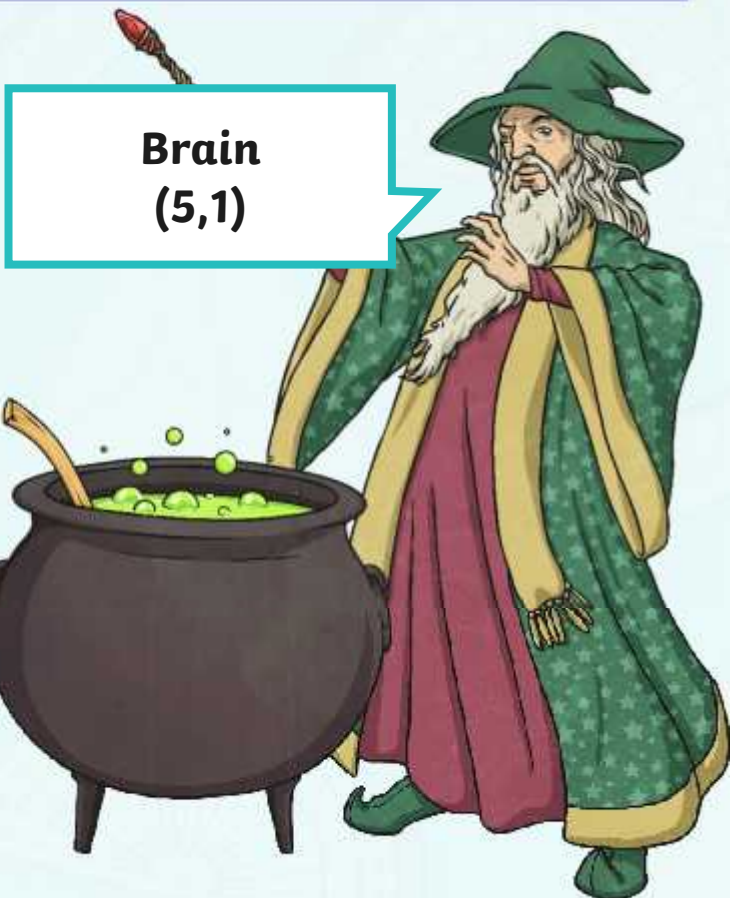
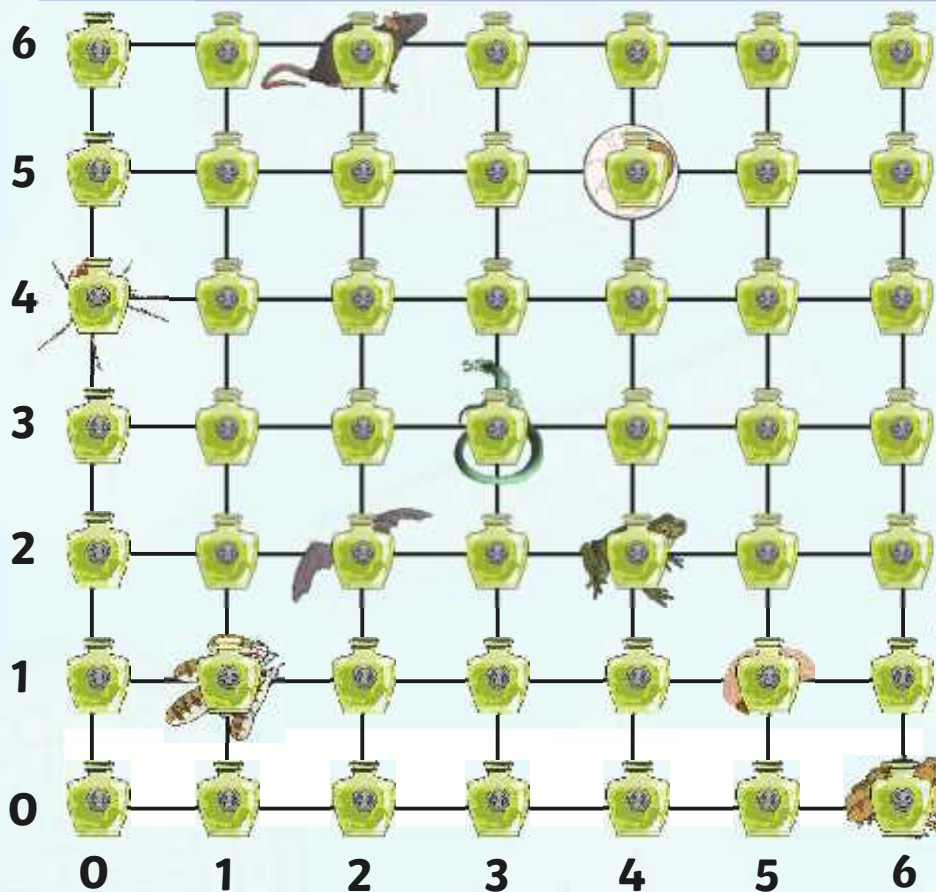
Frog
(4,2)



Wizard Potions



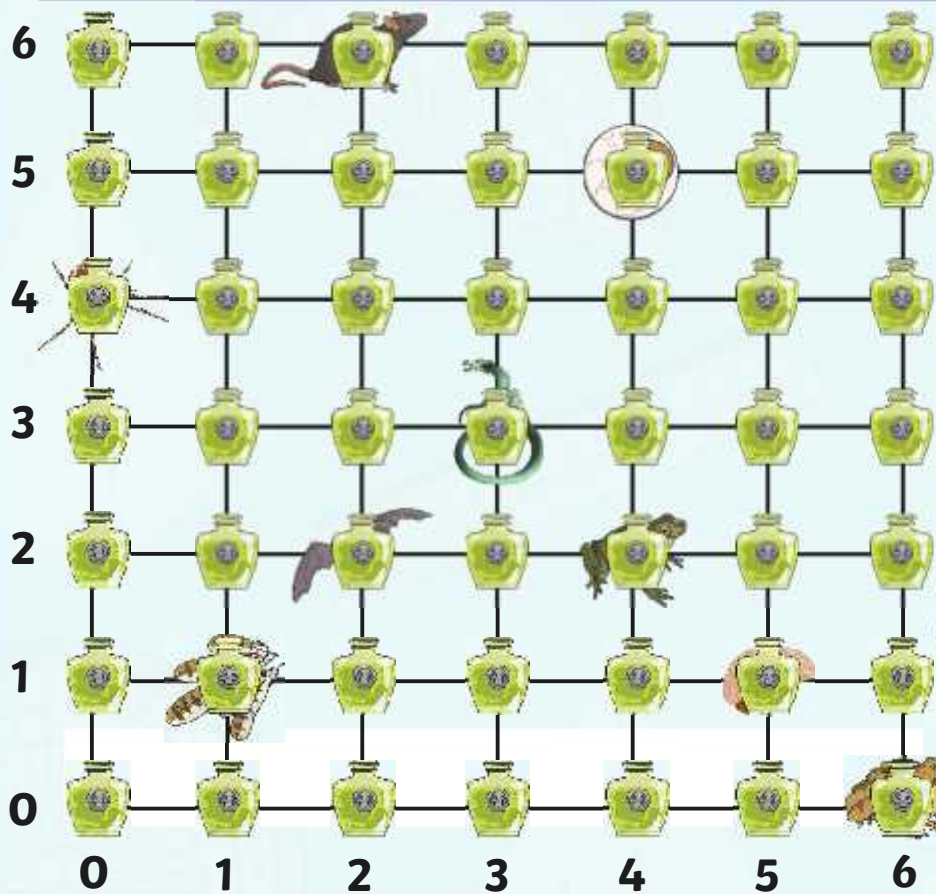
Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



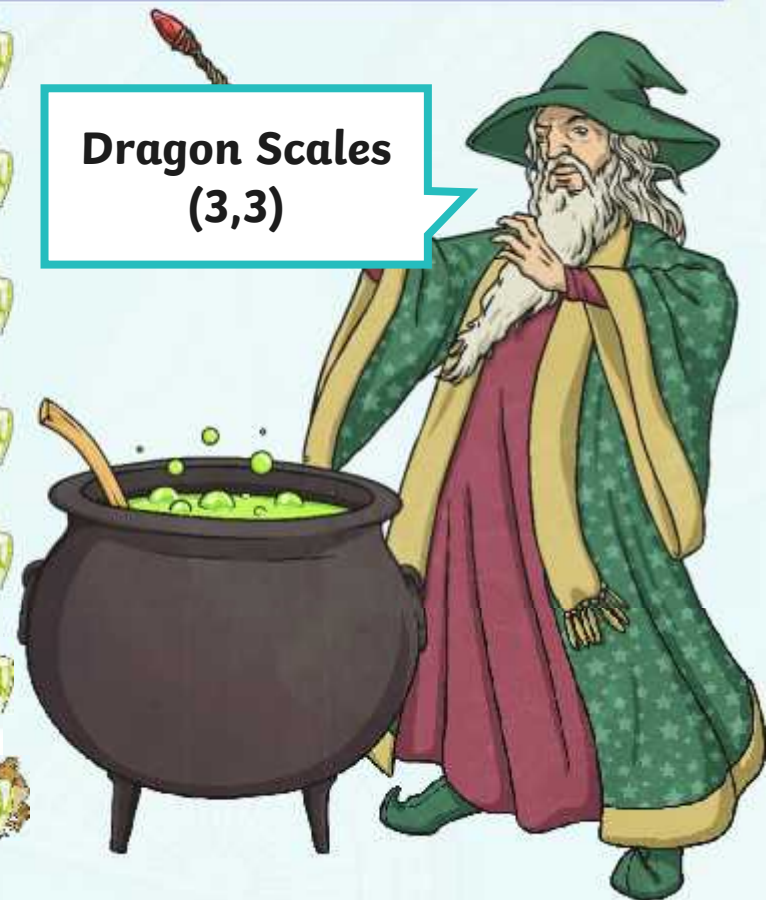
Wizard Potions



Collect the ingredients to help the wizard concoct his potion, by reading and plotting the coordinates correctly.



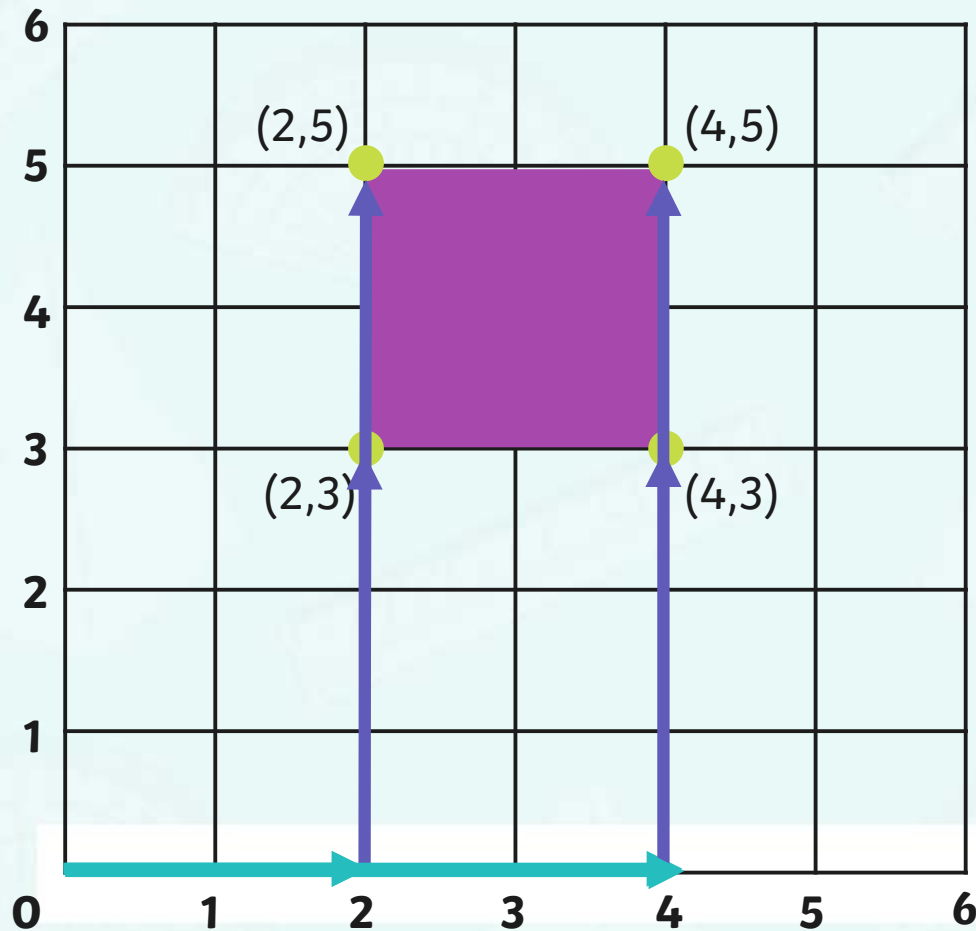
Dragon Scales
(3,3)



Thank you for helping me to collect my potion ingredients. Click on the cat to see the potion at work.



Reading Coordinates



Coordinates are a useful way to locate a position on a grid.

We can give the position of the four corners of this square using this coordinate grid.

We read and write coordinates by reading the number on the **x-axis** then the number on the **y-axis**.

Coordinate Squares



Work with your partners to plot the coordinate corners of the four different sized squares.



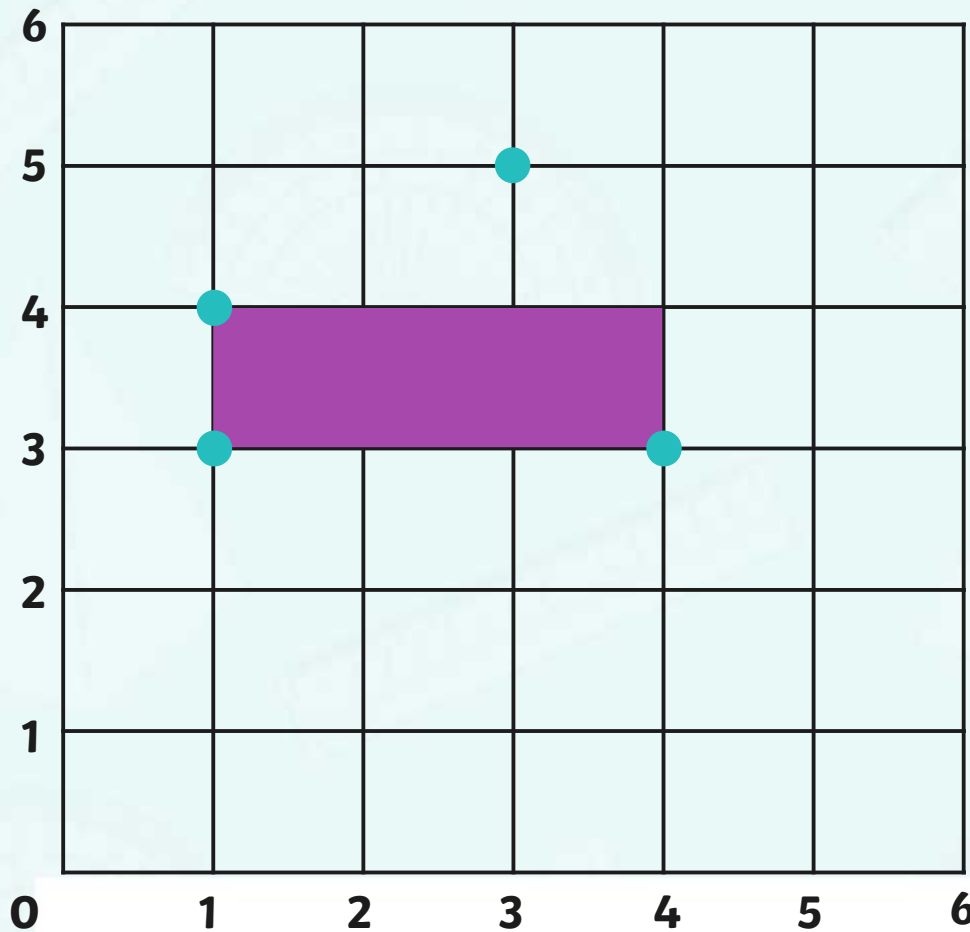
Coordinate Squares

To plot coordinates to draw polygons.

Plot the given coordinates to draw four squares of different sizes.

$(2,1)$ $(4,1)$ $(4,3)$ $(2,3)$	$(1,0)$ $(1,3)$ $(4,0)$ $(4,3)$
$(2,2)$ $(6,6)$ $(2,6)$ $(6,2)$	$(0,6)$ $(5,6)$ $(5,1)$ $(0,1)$

Spot the Mistake



When plotted, these coordinates should make a rectangle that looks like this:



(1,3)

(4,4)

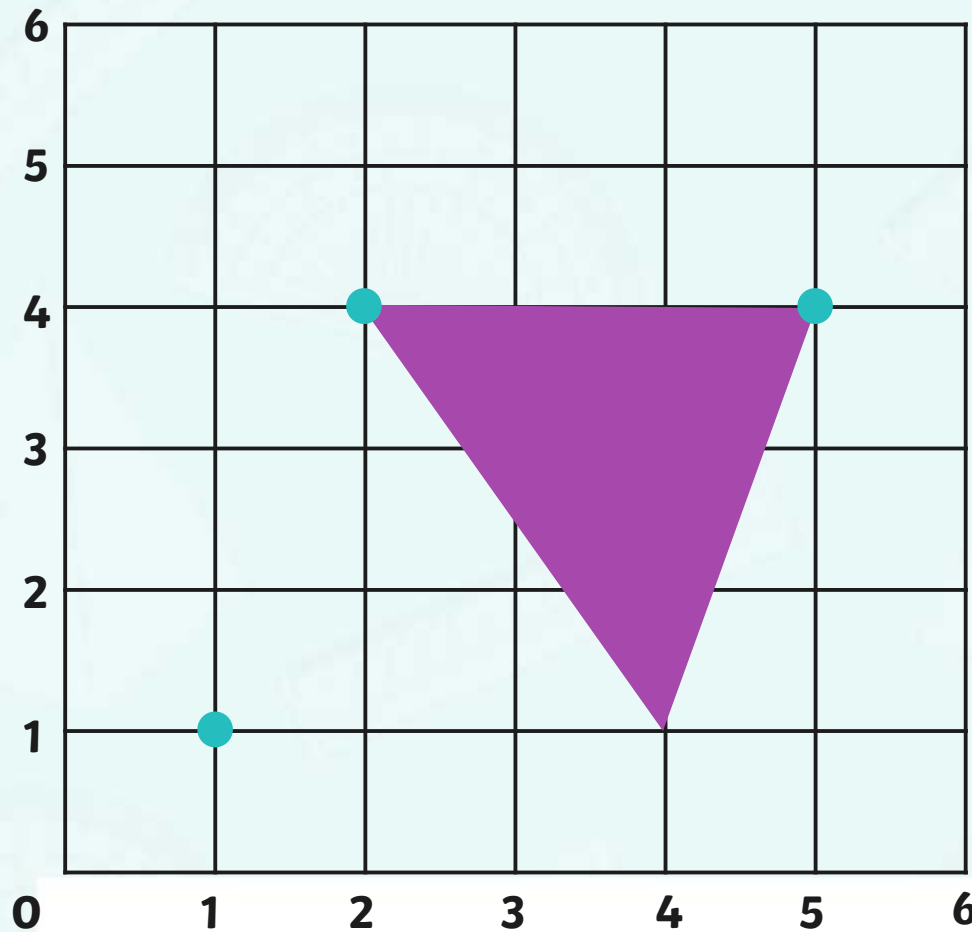
(4,3)

(1,4)

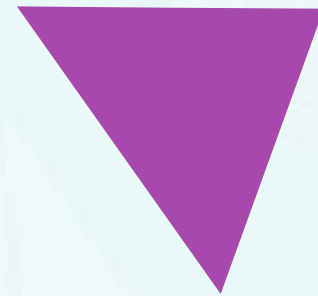
Click on them and decide which coordinate has been plotted incorrectly.

Show Answer

Spot the Mistake



When plotted, these coordinates should make a triangle that looks like this:



(5,4)

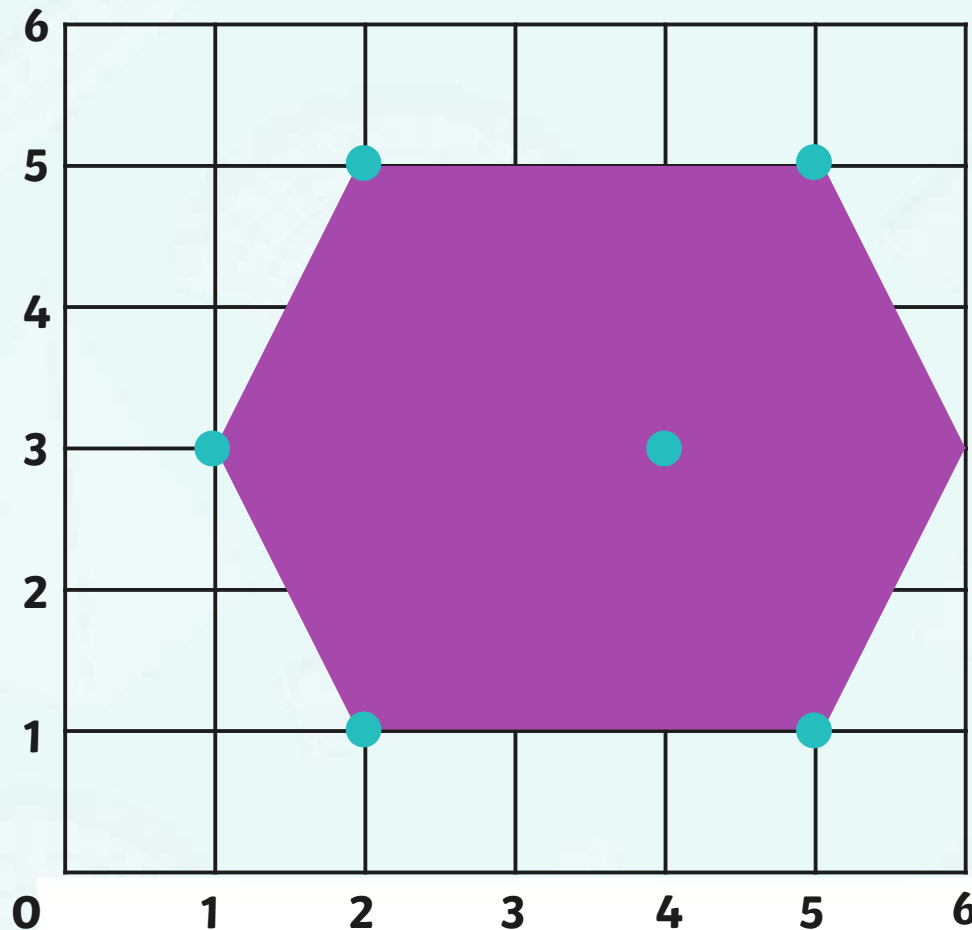
(4,1)

(2,4)

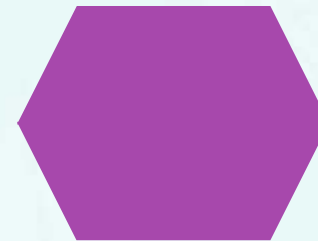
Click on them and decide which coordinate has been plotted incorrectly.

Show Answer

Spot the Mistake



When plotted, these coordinates should make a hexagon that looks like this:



(2,1)

(5,5)

(5,1)

(2,5)

(6,3)

(1,3)

Click on them and decide which coordinate has been plotted incorrectly.

Show Answer

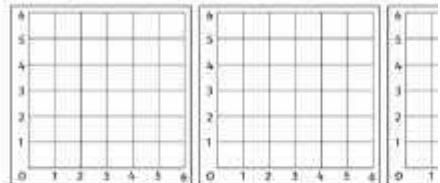
Coordinate Polygons



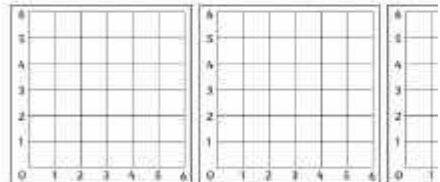
Coordinate Polygons

To plot coordinates to draw polygons.

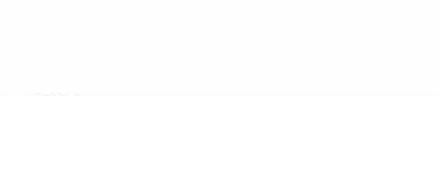
Plot the given coordinates on the grid and join them up to identify the polygon.



1. (1,1) (5,1) (5,5) (1,5)
Polygon =



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

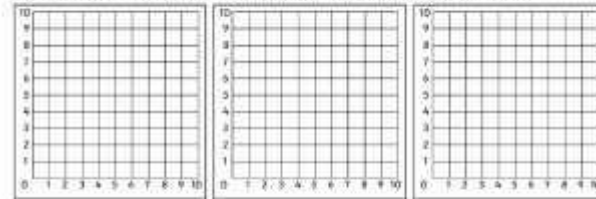


3. (0,3)
Polygon =

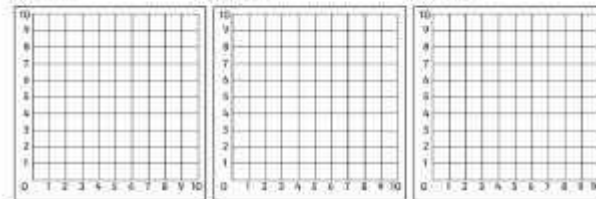
Coordinate Polygons

To plot coordinates to draw polygons.

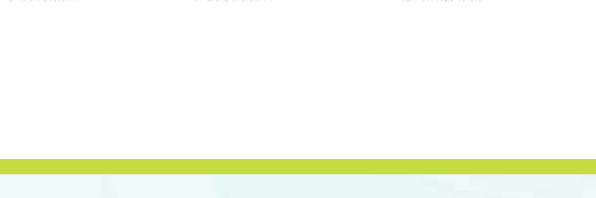
Plot the given coordinates on the grid and join them up to identify the polygon.



1. (0,3) (3,6) (6,3) (3,0)
Polygon =



2. (3,2) (5,9) (7,2)
Polygon =

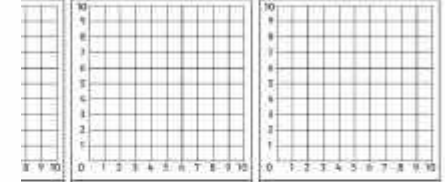


3. (0,3) (4,6) (10,0)
Polygon =

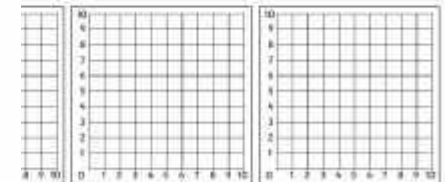
Coordinate Polygons

To plot coordinates to draw polygons.

Plot the given coordinates on the grid and join them up to identify the polygon. Use a ruler to measure the sides of each polygon to the nearest half centimeter of each polygon.



1. (3,2) (5,9) (7,2)
Polygon =
Perimeter =



2. (0,3) (4,6) (10,0)
Polygon =
Perimeter =



3. (8,8) (8,2) (4,3) (4,6)
Polygon =
Perimeter =

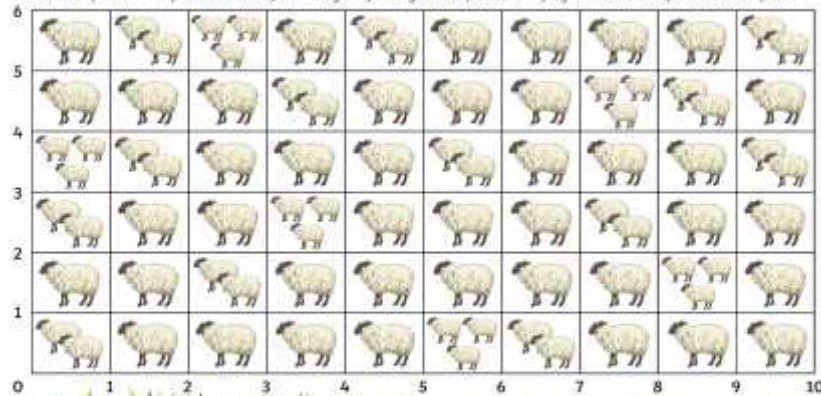
4. (5,10) (8,7) (5,0) (2,7)
Polygon =
Perimeter =

Sheepdog Championship



Sheepdog Championship Coordinate Game

Cut out and shuffle the game cards. On your turn choose a card and plot the coordinates on the game board. You have successfully rounded up all the sheep within the shape made by the points you have plotted. The player who rounds up the most sheep wins!



(0,0)	(0,4) (2,5)	(1,4) (4,6)	(1,3) (3,5)	(1,0) (3,1)	(2,0) (4,3)	(4,4) (7,5)
(0,1)	(1,1) (2,6)	(3,6) (2,6)	(1,3) (3,4)	(2,0) (3,3)	(5,0) (3,3)	(6,1) (7,6)
(1,4)	(1,3) (0,6)	(3,5) (2,5)	(4,5) (1,4)	(2,1) (1,3)	(5,1) (3,1)	(6,5) (4,6)
(1,0)		(4,5) (1,5)			(4,1) (2,1)	

How to play:

- Take it in turns to take a card from the pile.
- Plot the coordinates written on the card on the game board.
- Count the number of sheep you have rounded up.
- The winner is the player who rounds up the most sheep.

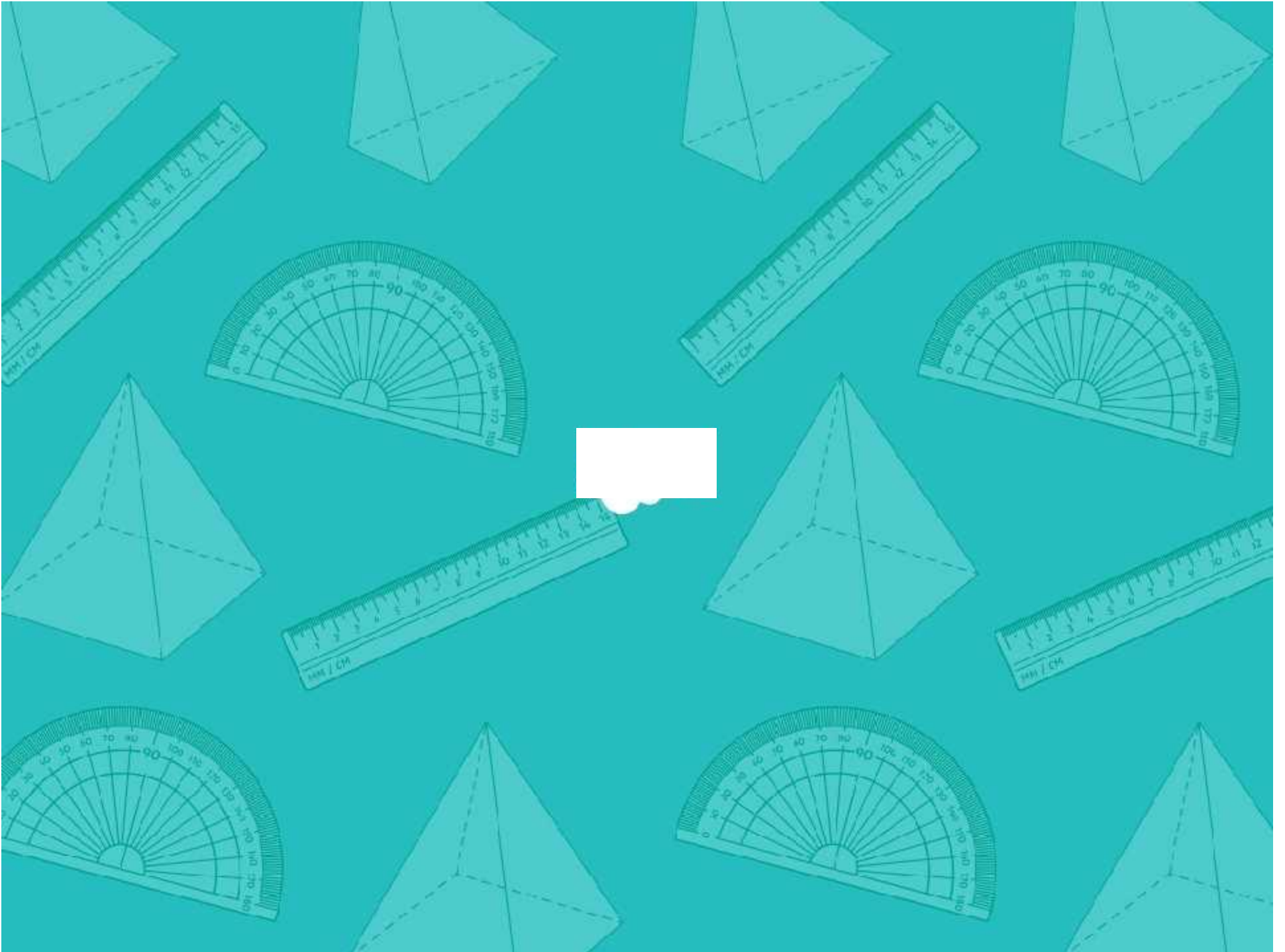
Aim



- To plot coordinates to draw polygons.

Success Criteria

- I can label the x-axis and y-axis.
- I know that a coordinate is represented by two numbers in brackets, separated by a comma.
- I can read a coordinate correctly by going along then up.



Aim: To plot coordinates to draw polygons.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can label the x and y-axis.				Notes/Evidence					
I know that a coordinate is represented by two numbers in brackets, separated by a comma.									
I can read a coordinate correctly by going along and then up.									
Next Steps									
) _____									
) _____									

T	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
S	Supply	GP	Guided Practice

Aim: To plot coordinates to draw polygons.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can label the x and y-axis.				Notes/Evidence					
I know that a coordinate is represented by two numbers in brackets, separated by a comma.									
I can read a coordinate correctly by going along and then up.									
Next Steps									
) _____									
) _____									

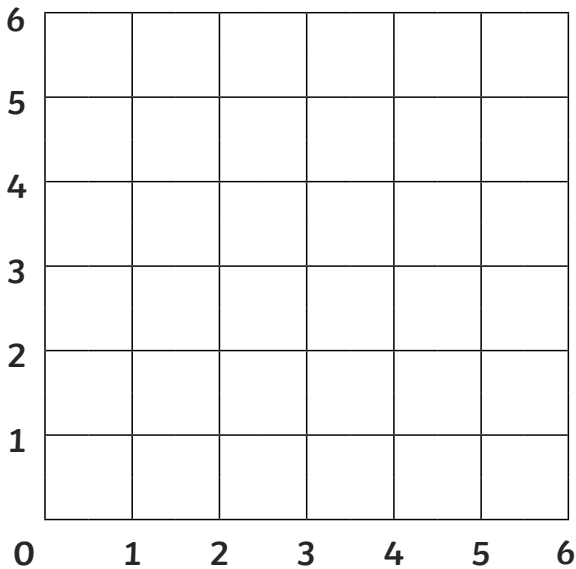
T	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
S	Supply	GP	Guided Practice

Coordinate Squares

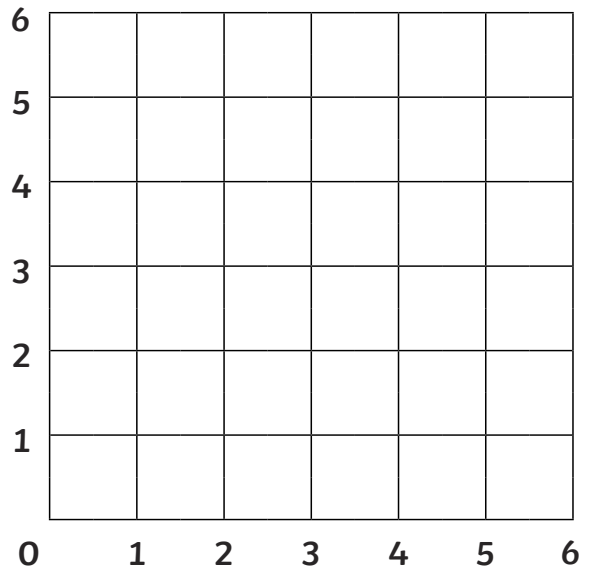
To plot coordinates to draw polygons.



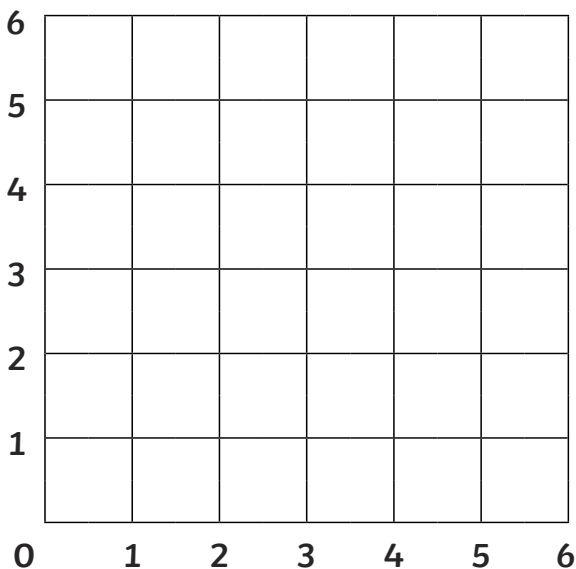
Plot the given coordinates to draw four squares of different sizes.



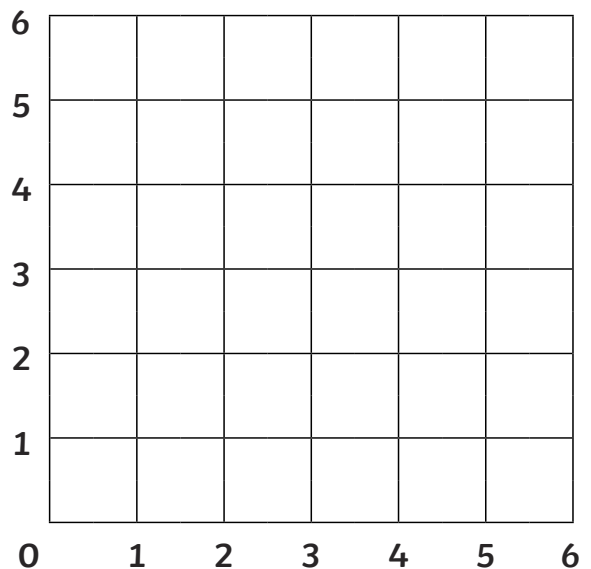
$(2,1)$ $(4,1)$ $(4,3)$ $(2,3)$



$(1,0)$ $(1,3)$ $(4,0)$ $(4,3)$



$(2,2)$ $(6,6)$ $(2,6)$ $(6,2)$



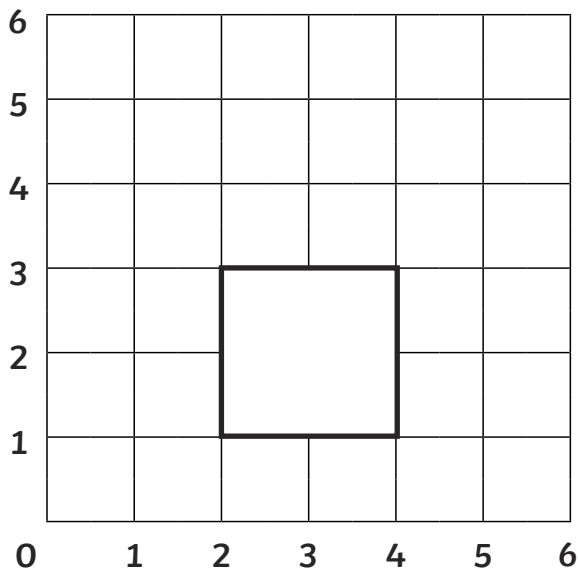
$(0,6)$ $(5,6)$ $(5,1)$ $(0,1)$

Coordinate Squares **Answers**

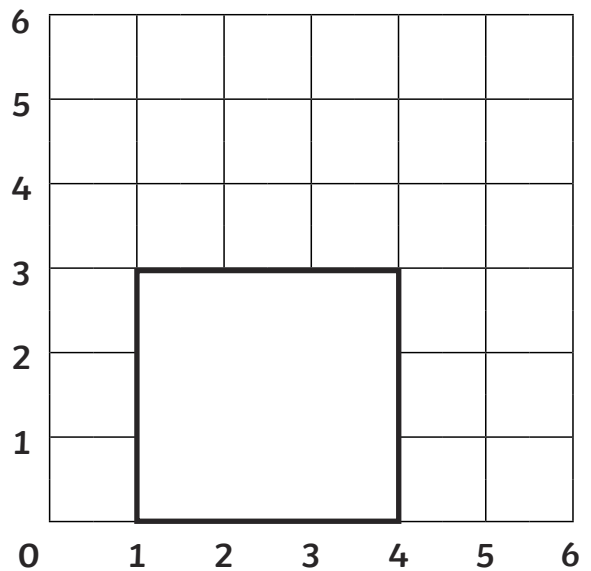
To plot coordinates to draw polygons.



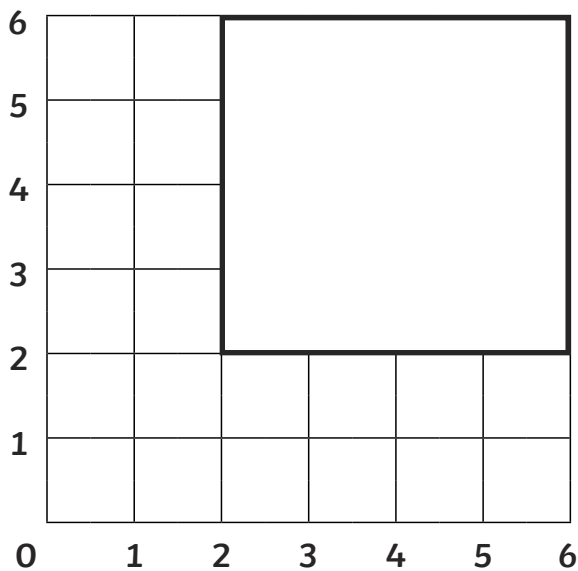
Plot the given coordinates to draw four squares of different sizes.



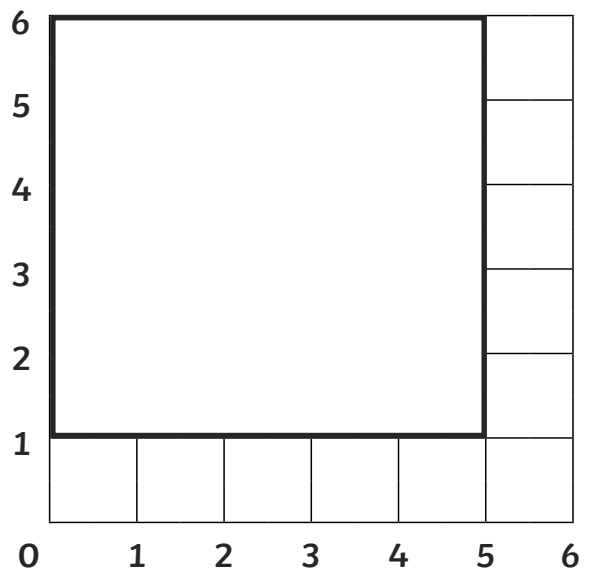
(2,1) (4,1) (4,3) (2,3)



(1,0) (1,3) (4,0) (4,3)



(2,2) (6,6) (2,6) (6,2)



(0,6) (5,6) (5,1) (0,1)

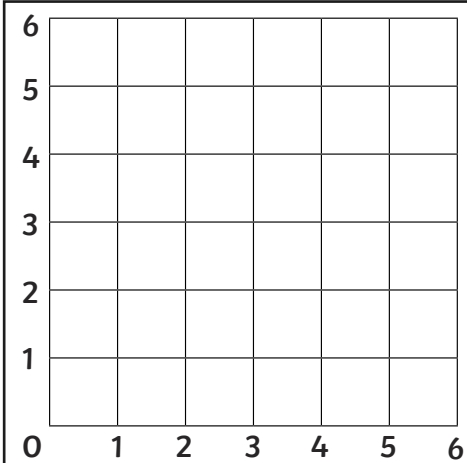


Coordinate Polygons

To plot coordinates to draw polygons.

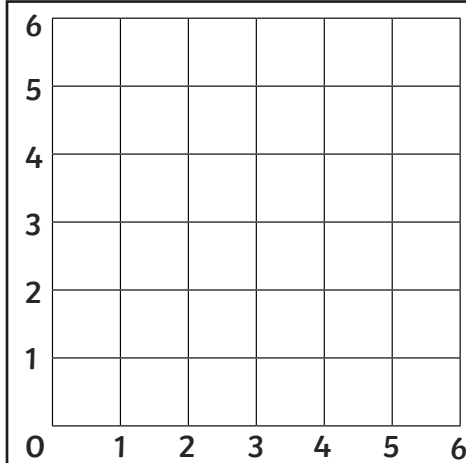


Plot the given coordinates on the grid and join them up to identify the polygon.



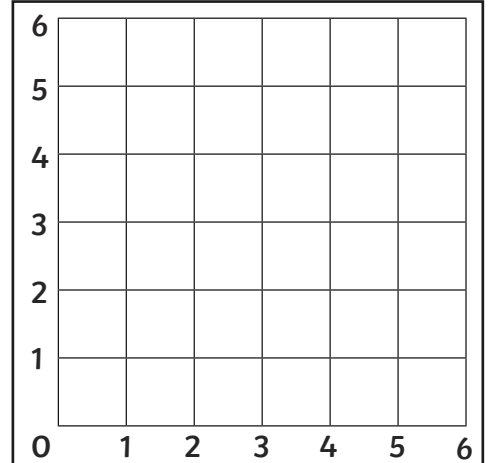
1. $(1,1)$ $(5,1)$ $(5,5)$ $(1,5)$

Polygon =



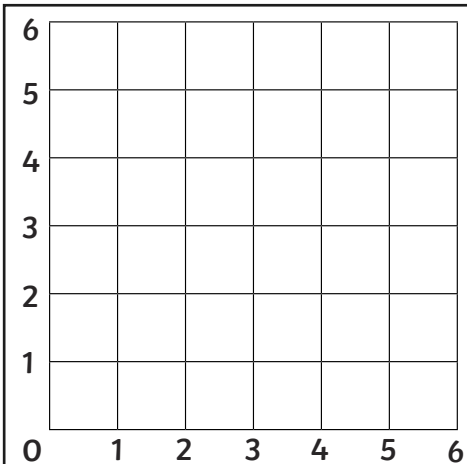
2. $(1,3)$ $(5,3)$ $(5,5)$ $(1,5)$

Polygon =



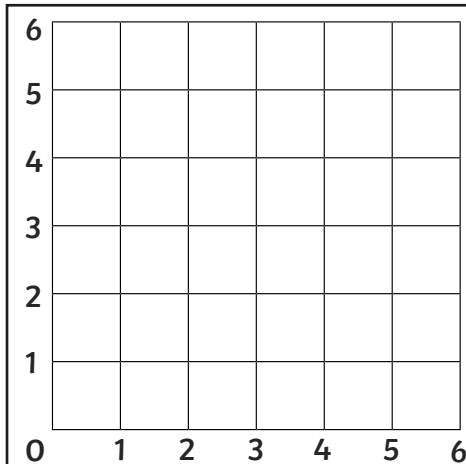
3. $(0,3)$ $(3,6)$ $(6,3)$ $(3,0)$

Polygon =



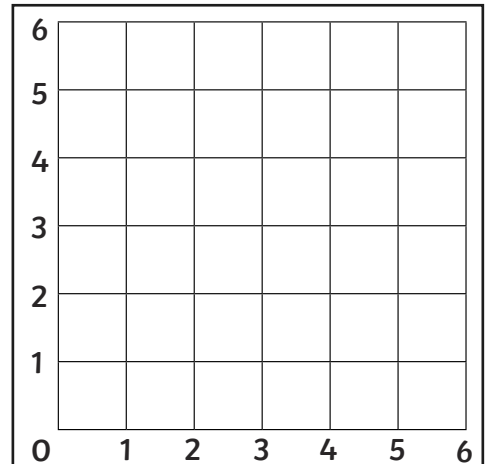
4. $(2,6)$ $(4,6)$ $(4,0)$ $(2,0)$

Polygon =



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

Polygon =



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

Polygon =

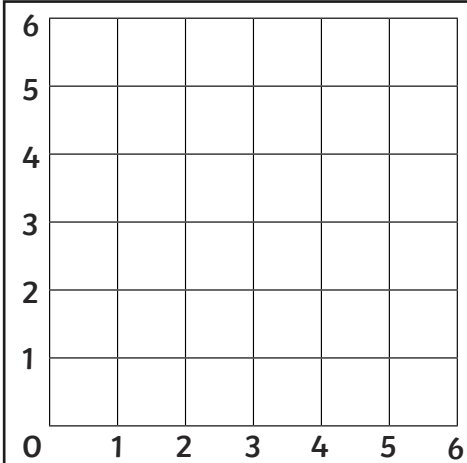


Coordinate Polygons

To plot coordinates to draw polygons.

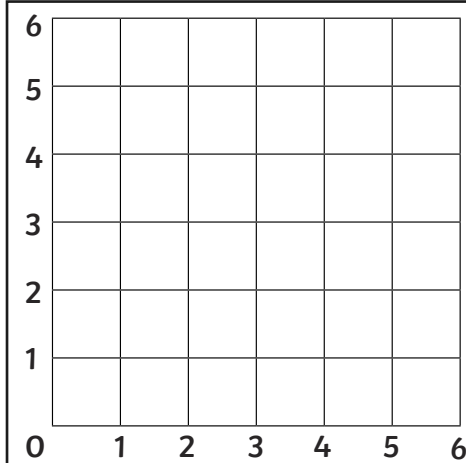


Plot the given coordinates on the grid and join them up to identify the polygon.



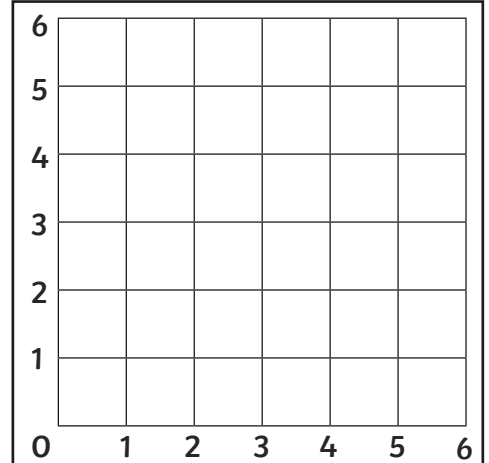
7. (3,5) (5,3) (5,1) (1,1) (1,3)

Polygon =



8. (2,5) (4,5) (5,3) (4,1) (2,1) (1,3)

Polygon =



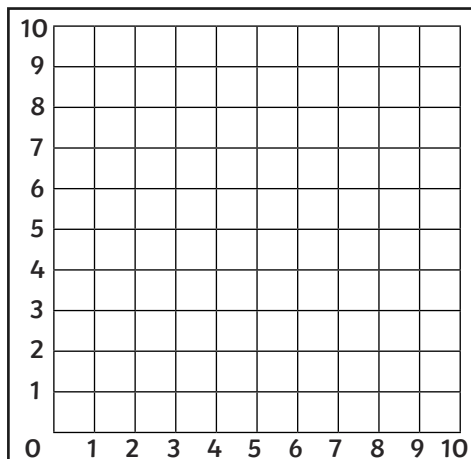
9. (1,5) (2,3) (1,1) (5,1) (4,3) (5,5)

Polygon =

Coordinate Polygons

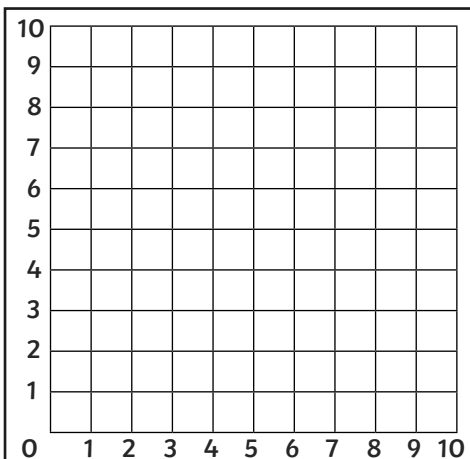
To plot coordinates to draw polygons.

Plot the given coordinates on the grid and join them up to identify the polygon.



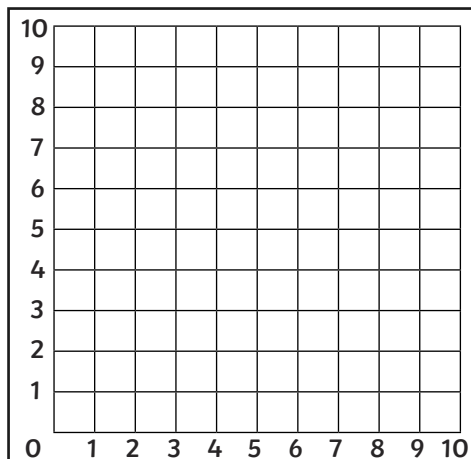
1. $(0,3)$ $(3,6)$ $(6,3)$ $(3,0)$

Polygon =



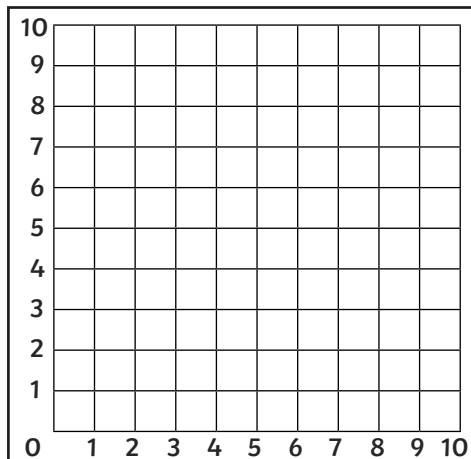
2. $(3,2)$ $(5,9)$ $(7,2)$

Polygon =



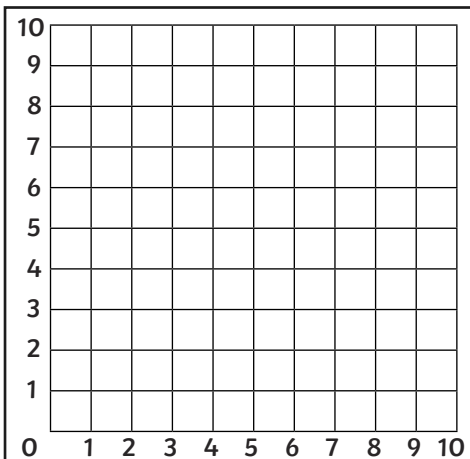
3. $(0,3)$ $(4,6)$ $(10,0)$

Polygon =



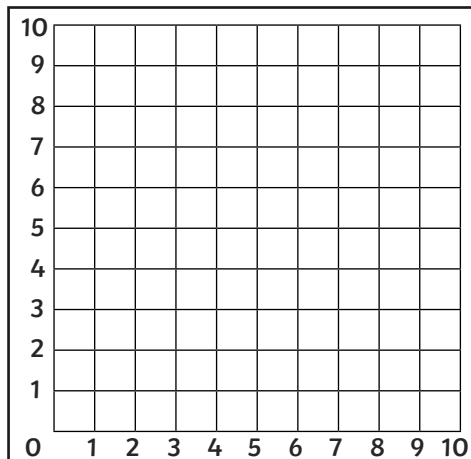
4. $(1,9)$ $(7,9)$ $(9,1)$ $(3,1)$

Polygon =



5. $(8,8)$ $(8,2)$ $(4,4)$ $(4,6)$

Polygon =



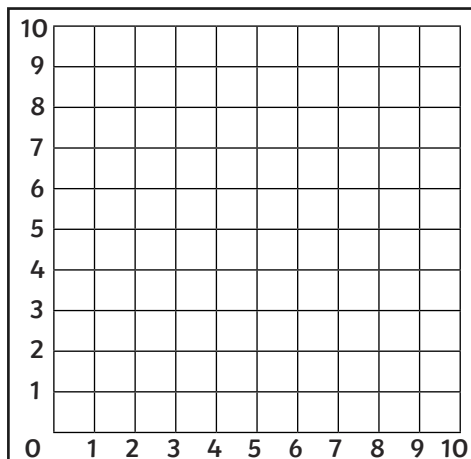
6. $(5,10)$ $(8,7)$ $(5,0)$ $(2,7)$

Polygon =

Coordinate Polygons

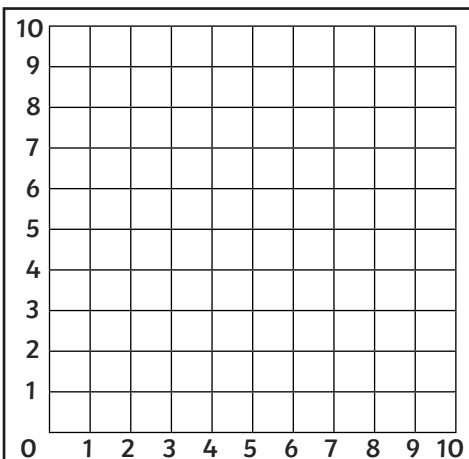
To plot coordinates to draw polygons.

Plot the given coordinates on the grid and join them up to identify the polygon.



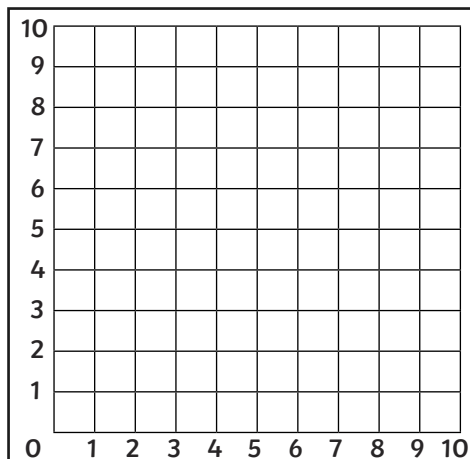
7. $(1,9)$ $(1,1)$ $(5,1)$
 $(10,5)$ $(5,9)$

Polygon =



8. $(2,9)$ $(5,7)$ $(8,9)$
 $(8,2)$ $(5,0)$ $(2,2)$

Polygon =



9. $(1,7)$ $(4,10)$ $(7,10)$ $(10,7)$
 $(10,4)$ $(7,1)$ $(4,1)$ $(1,4)$

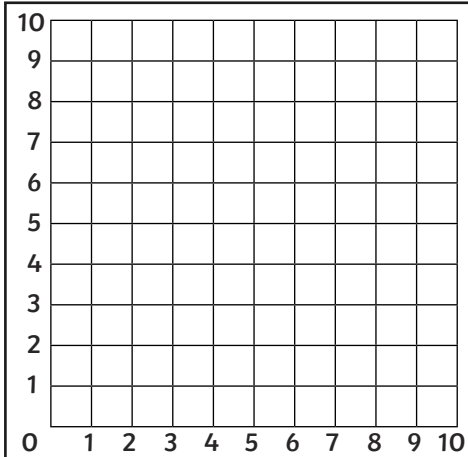
Polygon =

Coordinate Polygons

To plot coordinates to draw polygons.

Plot the given coordinates on the grid and join them up to identify the polygon.

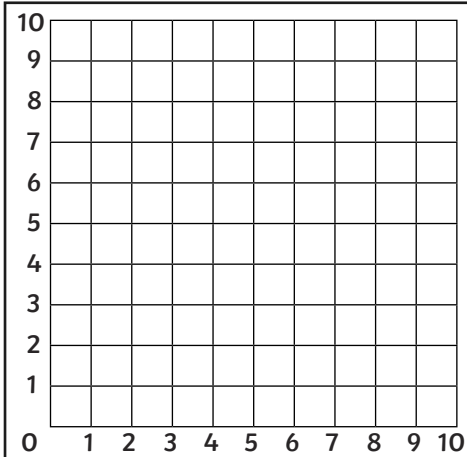
Extra Challenge: Use a ruler to measure the sides of each polygon to the nearest half cm and calculate the perimeter of each polygon.



1. (1,1) (8,8) (8,1)

Polygon =

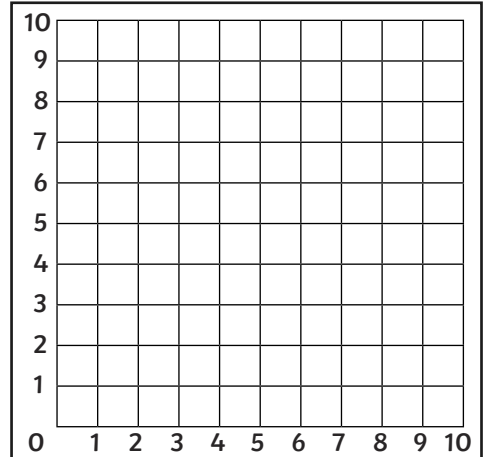
Perimeter =



2. (3,2) (5,9) (7,2)

Polygon =

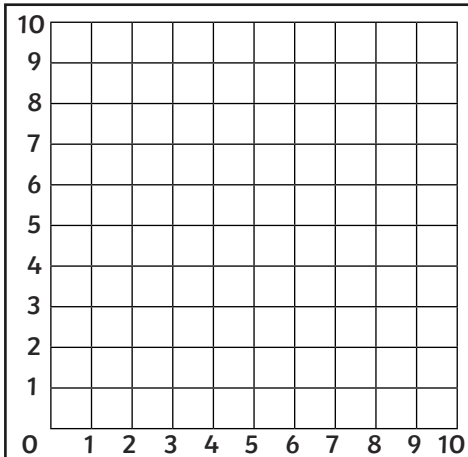
Perimeter =



3. (0,3) (4,6) (10,0)

Polygon =

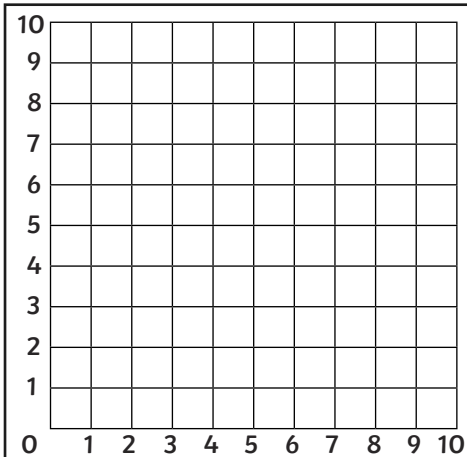
Perimeter =



4. (1,9) (7,9) (9,1) (3,1)

Polygon =

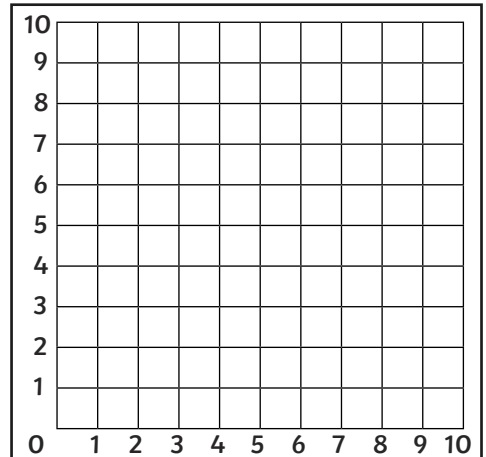
Perimeter =



5. (8,8) (8,2) (4,3) (4,6)

Polygon =

Perimeter =



6. (5,10) (8,7) (5,0) (2,7)

Polygon =

Perimeter =

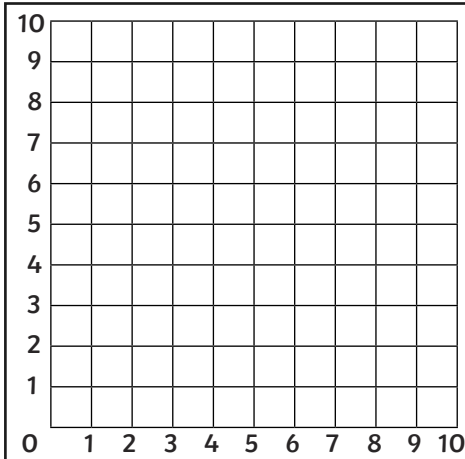


Coordinate Polygons

To plot coordinates to draw polygons.

Plot the given coordinates on the grid and join them up to identify the polygon.

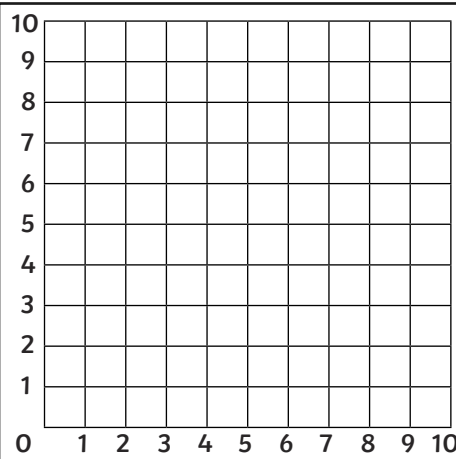
Extra Challenge: Use a ruler to measure the sides of each polygon to the nearest half cm and calculate the perimeter of each polygon.



7. (1,9) (1,1) (5,1)
(10,5) (5,9)

Polygon =

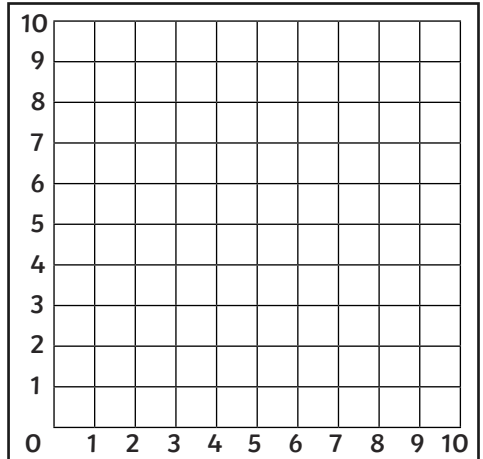
Perimeter =



8. (2,9) (5,7) (8,9)
(8,2) (5,0) (2,2)

Polygon =

Perimeter =



9. (1,7) (4,10) (7,10) (10,7)
(10,4) (7,1) (4,1) (1,4)

Polygon =

Perimeter =

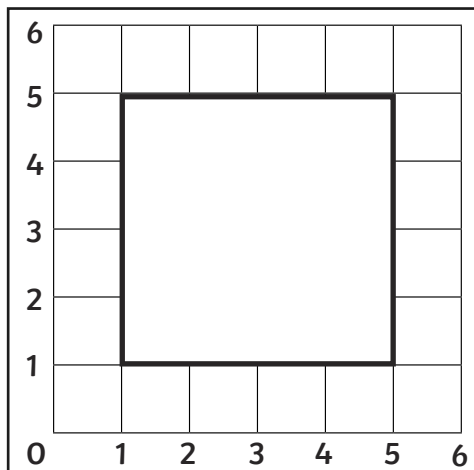


Coordinate Polygons Answers

To plot coordinates to draw polygons.

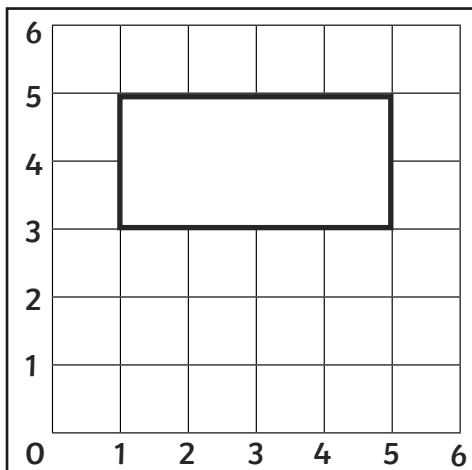


Plot the given coordinates on the grid and join them up to identify the polygon.



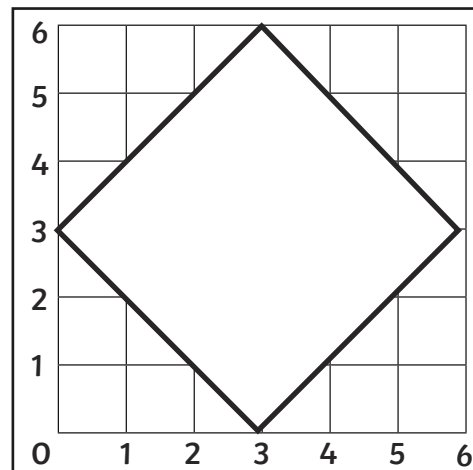
1. $(1,1)(5,1)(5,5)(1,5)$

Polygon = **Square**



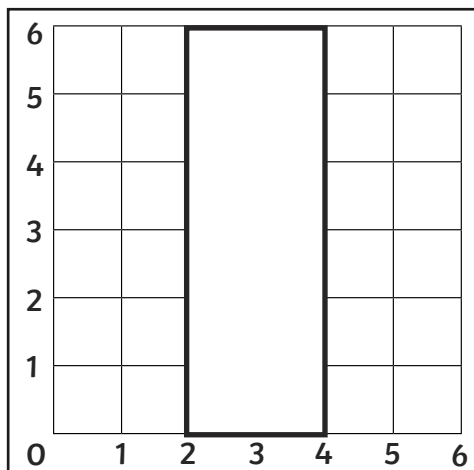
2. $(1,3)(5,3)(5,5)(1,5)$

Polygon = **Rectangle**



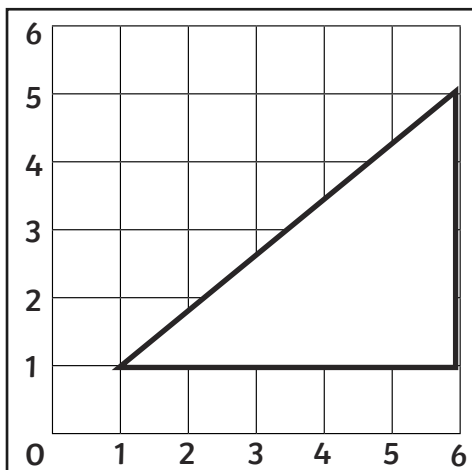
3. $(0,3)(3,6)(6,3)(3,0)$

Polygon = **Square**



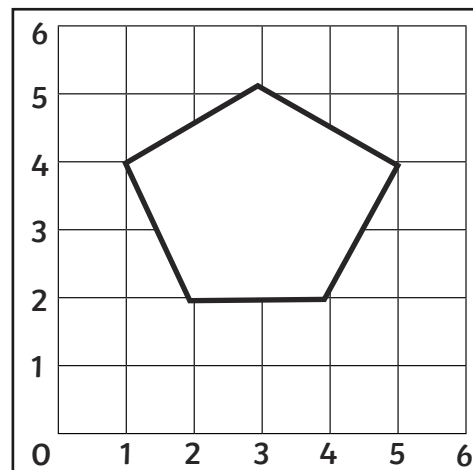
4. $(2,6)(4,6)(4,0)(2,0)$

Polygon = **Rectangle**



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

Polygon = **Right-Angled Triangle**



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

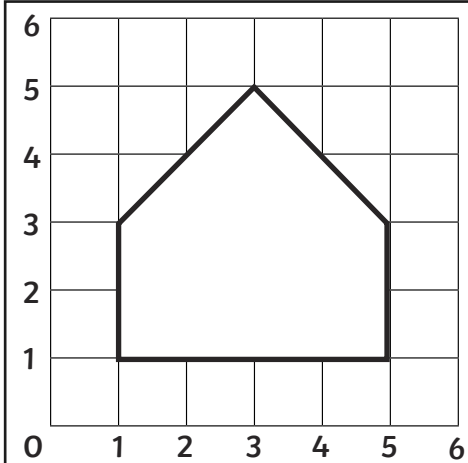
Polygon = **Irregular Pentagon**



Coordinate Polygons **Answers**

To plot coordinates to draw polygons.

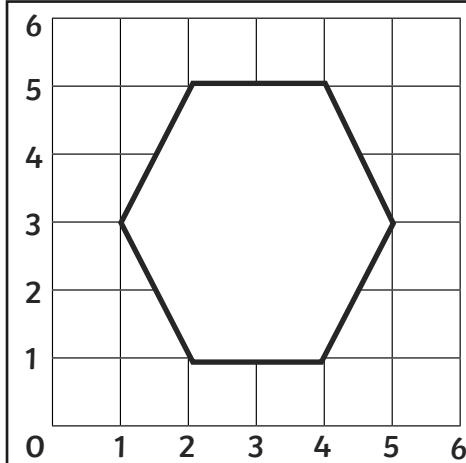
Plot the given coordinates on the grid and join them up to identify the polygon.



7. (3,5)(5,3)(5,1)(1,1)(1,3)

Irregular

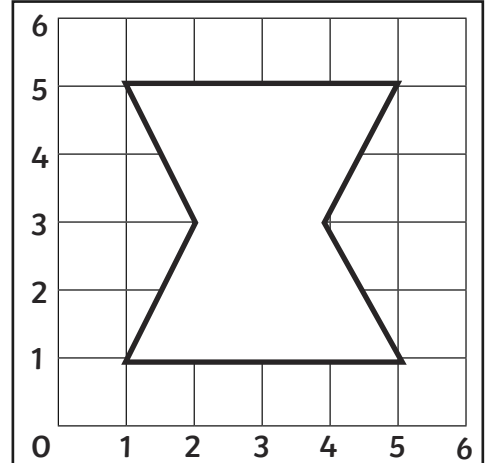
Polygon = **Pentagon**



8. (2,5)(4,5)(5,3)(4,1)(2,1)(1,3)

Irregular

Polygon = **Hexagon**



9. (1,5)(2,3)(1,1)(5,1)(4,3)(5,5)

Irregular

Polygon = **Hexagon**

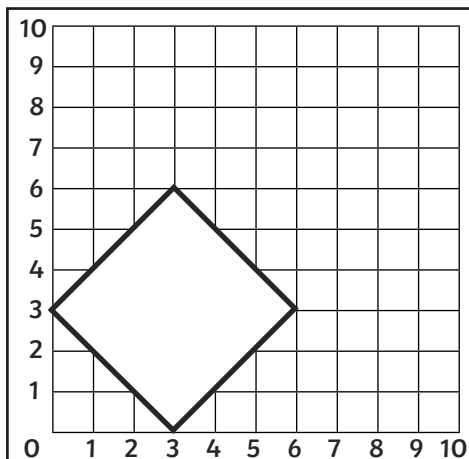


Coordinate Polygons Answers

To plot coordinates to draw polygons.

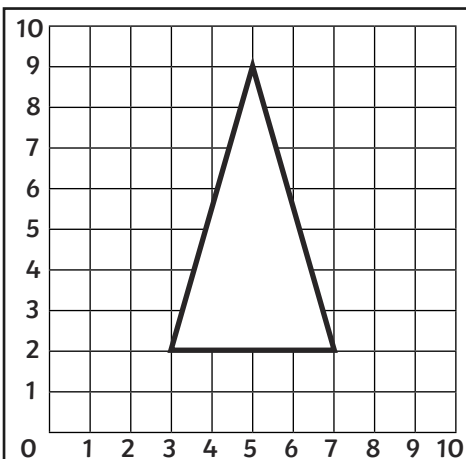


Plot the given coordinates on the grid and join them up to identify the polygon.



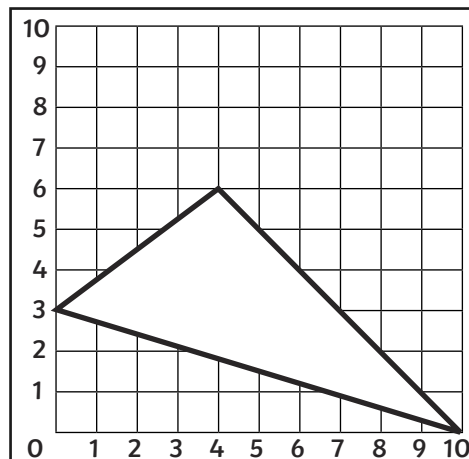
1. (0,3)(3,6)(6,3)(3,0)

Polygon = **Square**



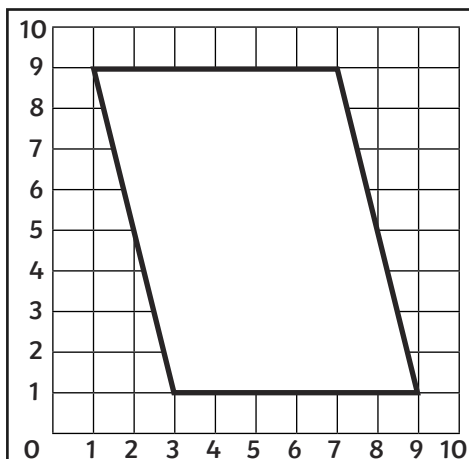
2. (3,2)(5,9)(7,2)

Isosceles
Polygon = **Triangle**



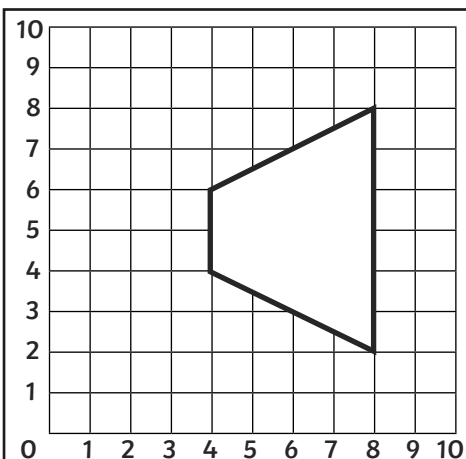
3. (0,3)(4,6)(10,0)

Scalene
Polygon = **Triangle**



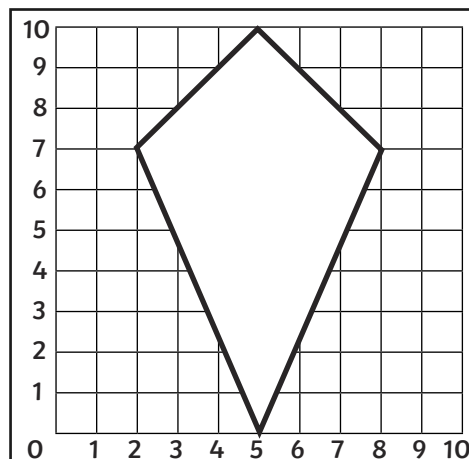
4. (1,9)(7,9)(9,1)(3,1)

Polygon = **Parallelogram**



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

Polygon = **Trapezium**



6. (5,10)(8,7)(5,0)(2,7)

Polygon = **Kite**

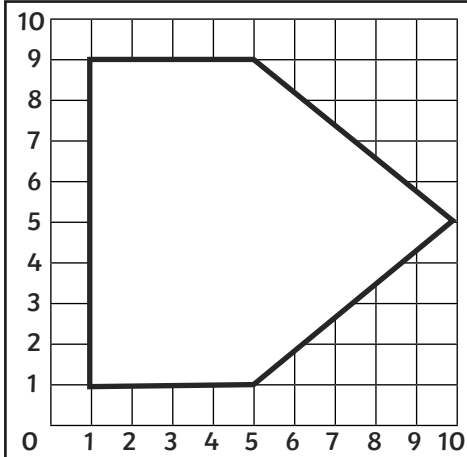


Coordinate Polygons **Answers**

To plot coordinates to draw polygons.

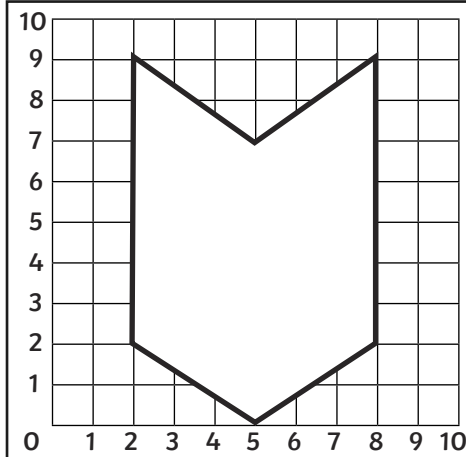


Plot the given coordinates on the grid and join them up to identify the polygon.



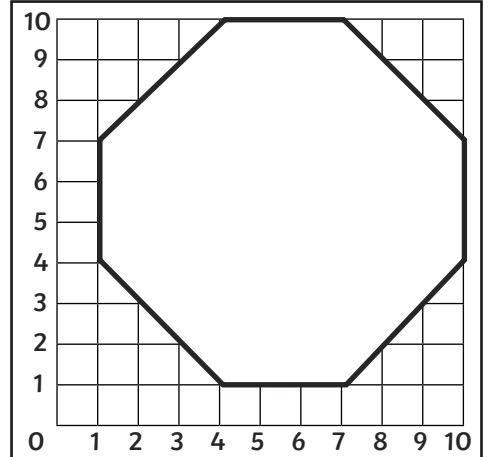
7. (1,9)(1,1)(5,1)
(10,5)(5,9)

Irregular
Polygon = *Pentagon*



8. (2,9)(5,7)(8,9)
(8,2)(5,0)(2,2)

Irregular
Polygon = *Hexagon*



9. (1,7)(4,10)(7,10)(10,7)
(10,4)(7,1)(4,1)(1,4)

Irregular
Polygon = *Octagon*



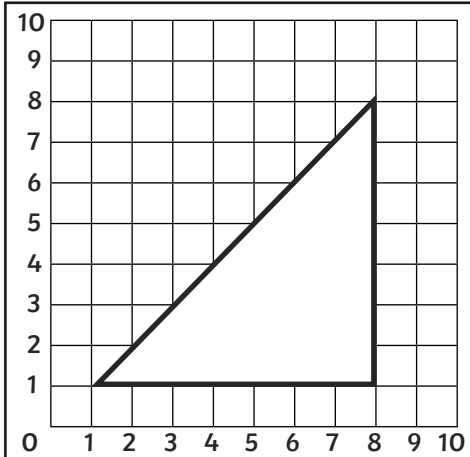
Coordinate Polygons Answers

To plot coordinates to draw polygons.



Plot the given coordinates on the grid and join them up to identify the polygon.

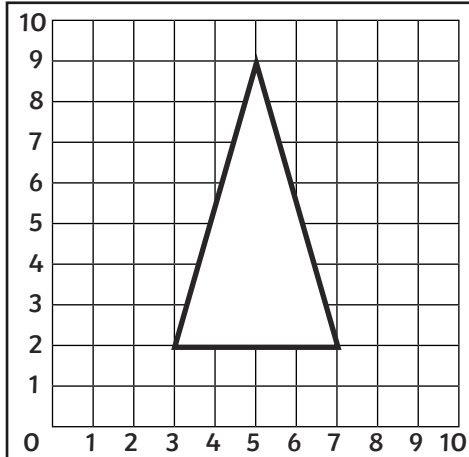
Extra Challenge: Use a ruler to measure the sides of each polygon to the nearest half cm and calculate the perimeter of each polygon.



1. $(1,1)(8,8)(8,1)$

Polygon = **Right-angled Triangle**

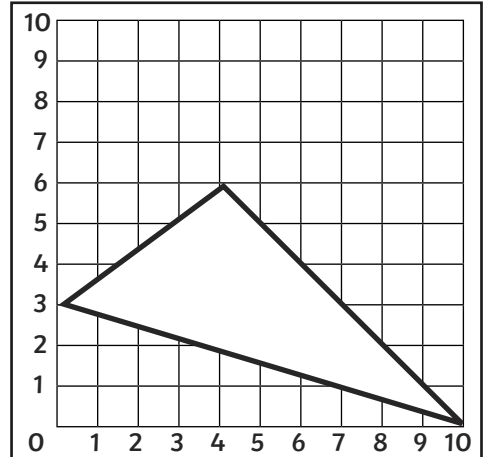
Perimeter = **12.5 cm**



2. $(3,2)(5,9)(7,2)$

Polygon = **Isosceles Triangle**

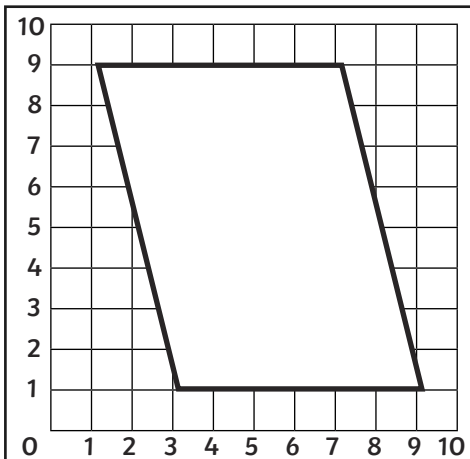
Perimeter = **10 cm**



3. $(0,3)(4,6)(10,0)$

Polygon = **Scalene Triangle**

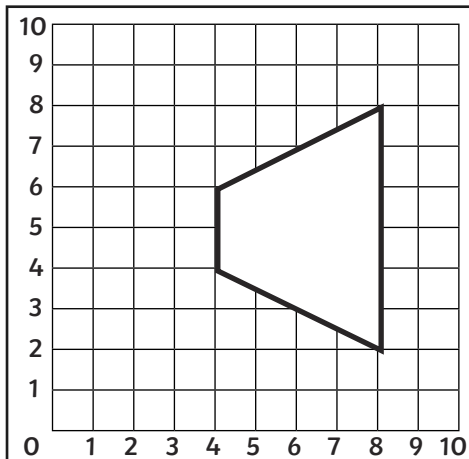
Perimeter = **12.5 cm**



4. $(1,9)(7,9)(9,1)(3,1)$

Polygon = **Parallelogram**

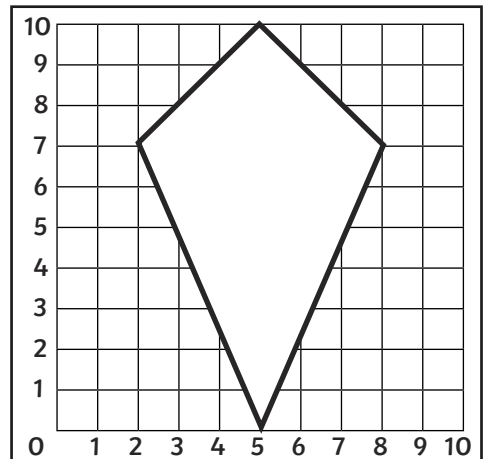
Perimeter = **15 cm**



5. $(8,8)(8,2)(4,3)(4,6)$

Polygon = **Trapezium**

Perimeter = **9 cm**



6. $(5,10)(8,7)(5,0)(2,7)$

Polygon = **Kite**

Perimeter = **14 cm**





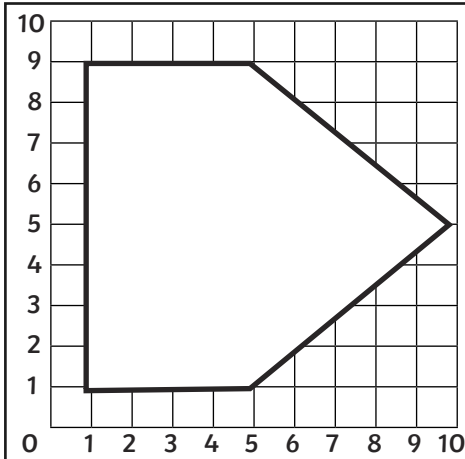
Coordinate Polygons **Answers**

To plot coordinates to draw polygons.



Plot the given coordinates on the grid and join them up to identify the polygon.

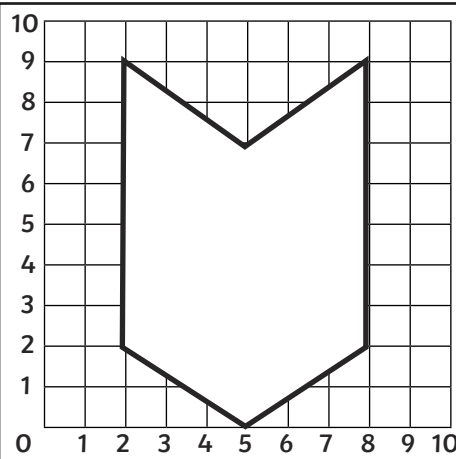
Extra Challenge: Use a ruler to measure the sides of each polygon to the nearest half cm and calculate the perimeter of each polygon.



7. (1,9)(1,1)(5,1)
(10,5)(5,9)

Polygon = **Irregular
Pentagon**

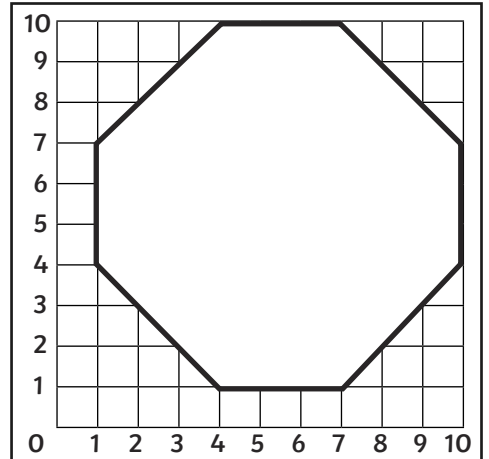
Perimeter = **15 cm**



8. (2,9)(5,7)(8,9)
(8,2)(5,0)(2,2)

Polygon = **Irregular
Hexagon**

Perimeter = **15 cm**



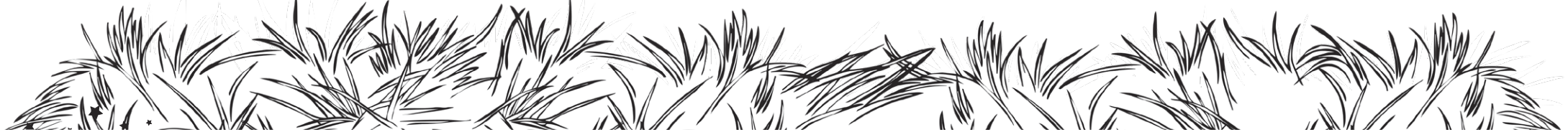
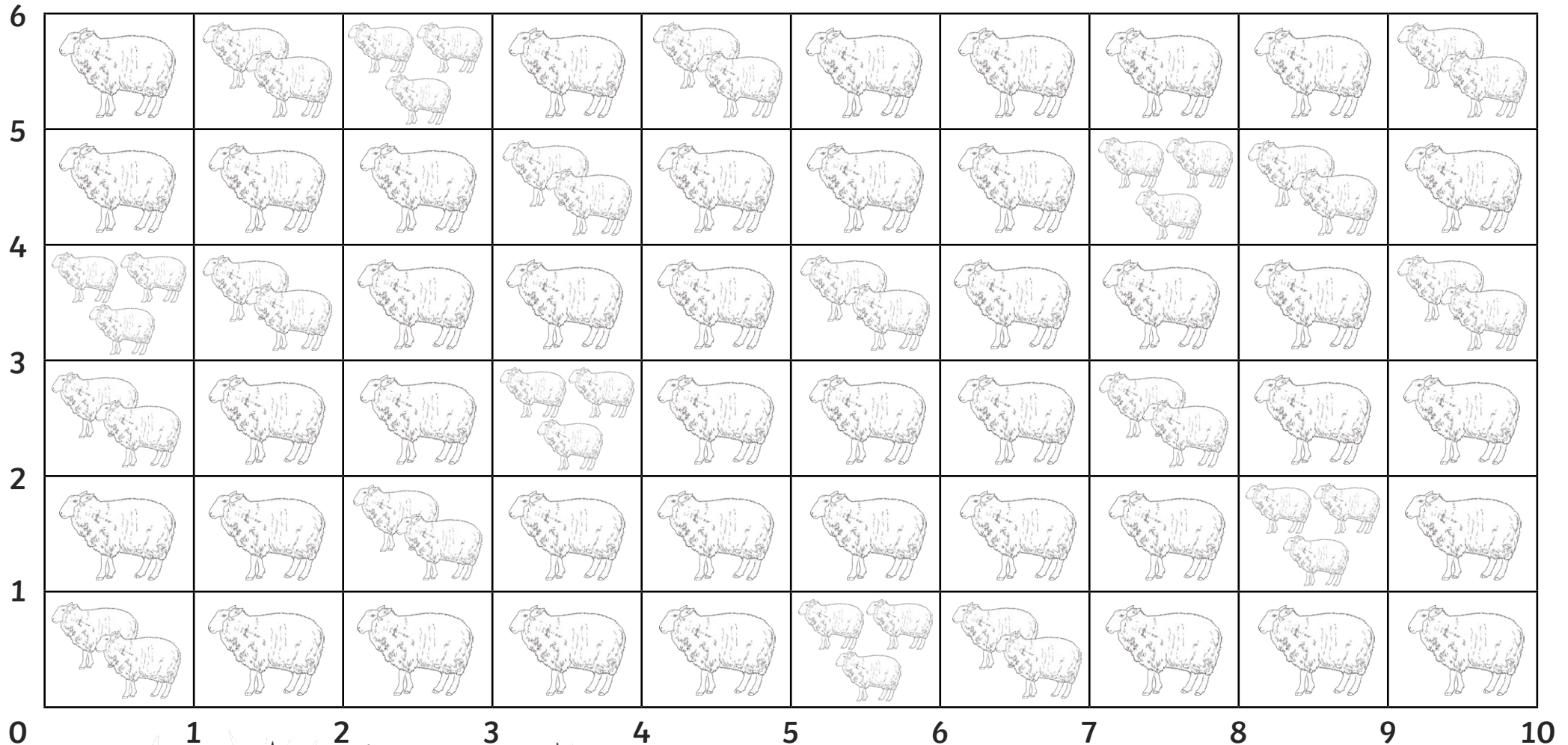
9. (1,7)(4,10)(7,10)(10,7)
(10,4)(7,1)(4,1)(1,4)

Polygon = **Irregular
Octagon**















Perimeter = **16 cm**

Sheepdog Championship Coordinate Game

Cut out and shuffle the game cards. On your turn, choose a card and plot the coordinates on the game board. You have successfully rounded up all the sheep within the shape made by the points you have plotted. The player who rounds up the most sheep wins!

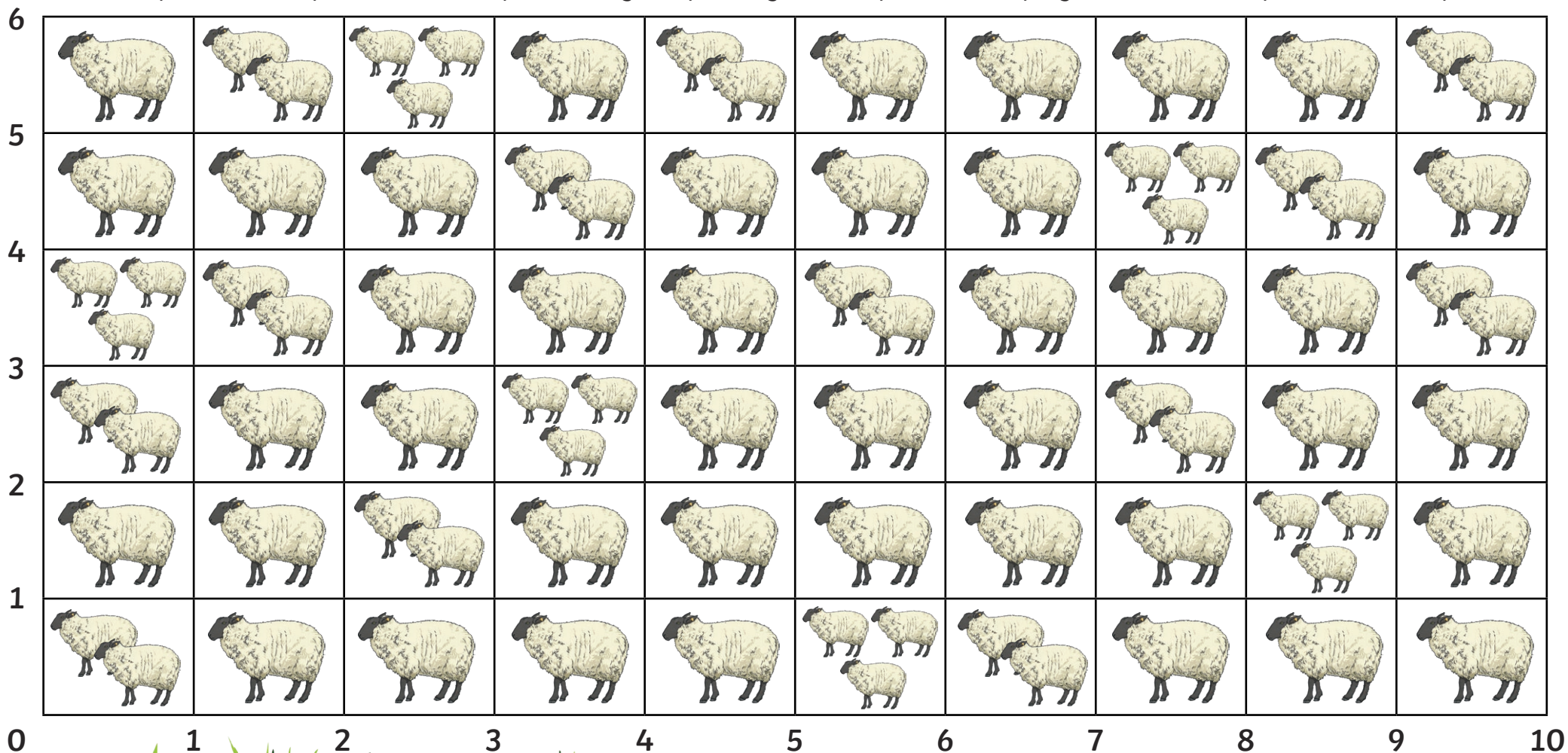


Sheepdog Championship Coordinate Game















(0,0) (0,4) (1,4) (1,0) 	(0,4) (2,3) (1,4) (2,6) (1,3) (0,6) 	(1,4) (4,6) (3,4) (2,6) (3,5) (2,5) (4,5) (1,5) 	(1,3) (3,5) (4,3) (3,4) (4,5) (1,4) 	(1,0) (3,1) (2,0) (3,3) (2,1) (1,3) 	(2,0) (4,3) (5,0) (3,3) (5,1) (3,1) (4,1) (2,1) 	(4,4) (7,5) (6,4) (7,6) (6,5) (4,6) 
(4,1) (5,3) (6,1) (6,3) (6,2) (6,4) (5,2) (4,4) 	(5,0) (6,2) (8,0) (6,1) (8,2) (5,1) 	(5,2) (6,4) (8,2) (6,3) (8,4) (5,3) 	(6,4) (9,6) (8,4) (7,6) (8,5) (7,5) (9,5) (6,5) 	(8,3) (9,6) (10,3) (9,5) (10,6) (8,5) 	(8,0) (9,0) (9,3) (8,3) 	(9,0) (10,0) (10,3) (9,3) 

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Sheepdog Championship Coordinate Game

(0,0) (0,4) (1,4) (1,0)	(0,4) (2,3) (1,4) (2,6) (1,3) (0,6)	(1,4) (4,6) (3,4) (2,6) (3,5) (2,5) (4,5) (1,5)	(1,3) (3,5) (4,3) (3,4) (4,5) (1,4)	(1,0) (3,1) (2,0) (3,3) (2,1) (1,3)	(2,0) (4,3) (5,0) (3,3) (5,1) (3,1) (4,1) (2,1)	(4,4) (7,5) (6,4) (7,6) (6,5) (4,6)
						
(4,1) (5,3) (6,1) (6,3) (6,2) (6,4) (5,2) (4,4)	(5,0) (6,2) (8,0) (6,1) (8,2) (5,1)	(5,2) (6,4) (8,2) (6,3) (8,4) (5,3)	(6,4) (9,6) (8,4) (7,6) (8,5) (7,5) (9,5) (6,5)	(8,3) (9,6) (10,3) (9,5) (10,6) (8,5)	(8,0) (9,0) (9,3) (8,3)	(9,0) (10,0) (10,3) (9,3)
						

Measurement and Geometry | Coordinate Polygons

To plot coordinates to draw polygons.		
I can label the x and y-axis.		
I know that a coordinate is represented by two numbers in brackets, separated by a comma.		
I can read a coordinate correctly by going along and then up.		

Measurement and Geometry | Coordinate Polygons

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