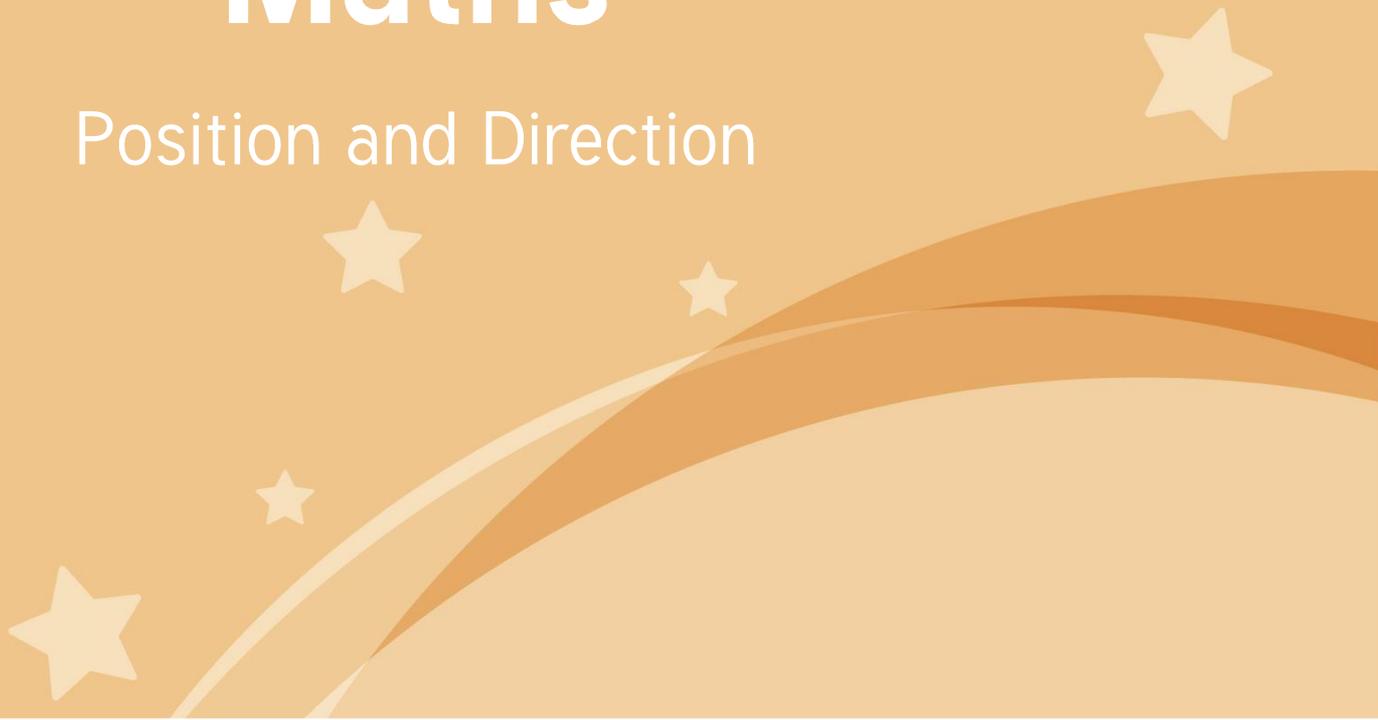




Maths

Position and Direction



Café Coordinates



Aim

- I can read coordinates in the first quadrant.

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.

At the Bakery



Use the vocabulary of position and direction to describe the delicious display of the food at the Twinkl bakery.

North

East

South

West

above

below

between

higher

lower

left

right



North-East

South-East

South-West

North-West

horizontal

vertical

diagonal

row

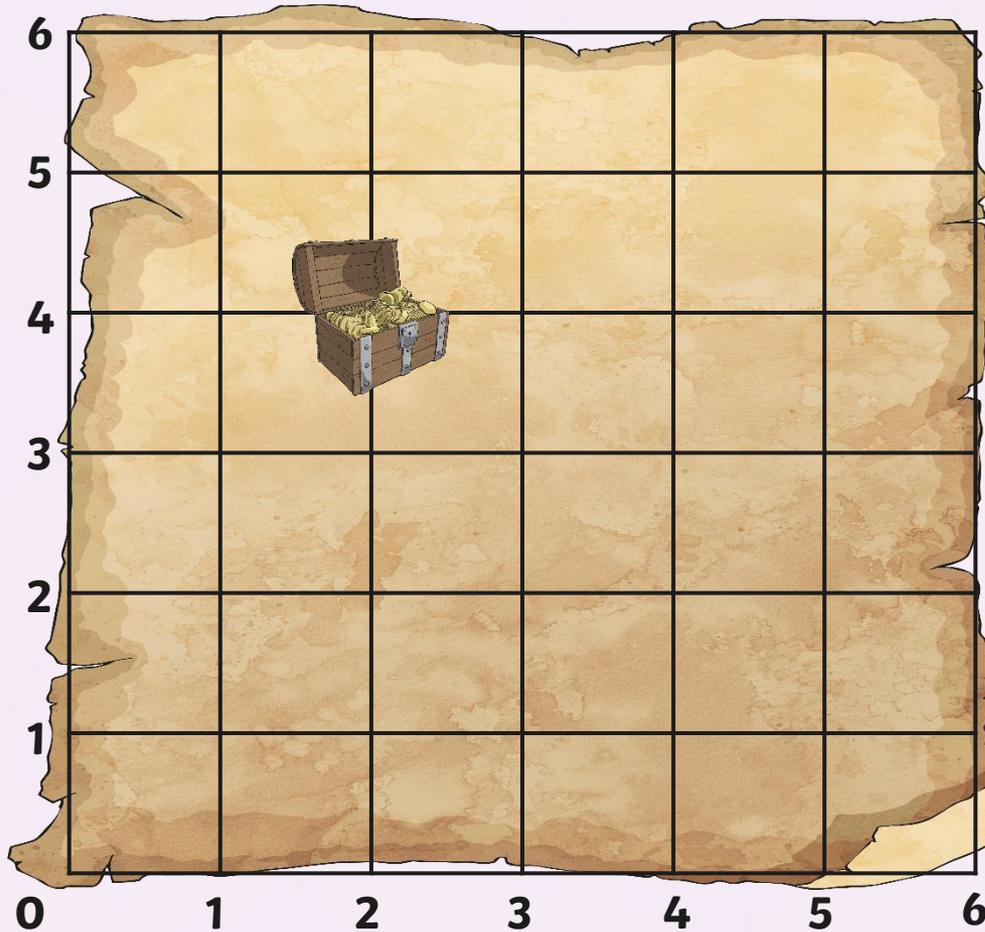
column

parallel

Show supporting vocabulary word bank

Hide supporting vocabulary word bank

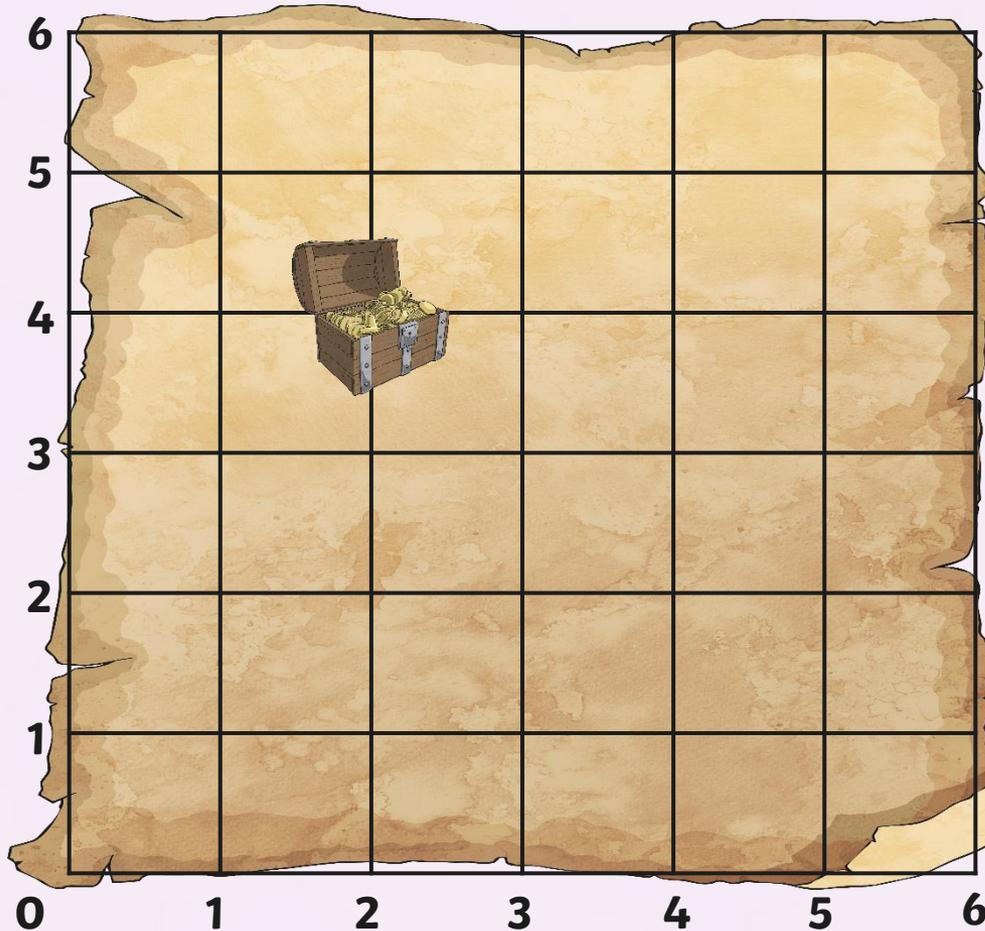
Reading Coordinates



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

Here is a map with a grid on. It shows where to find the treasure. Let's work together to read the coordinates and locate the position of the gold!

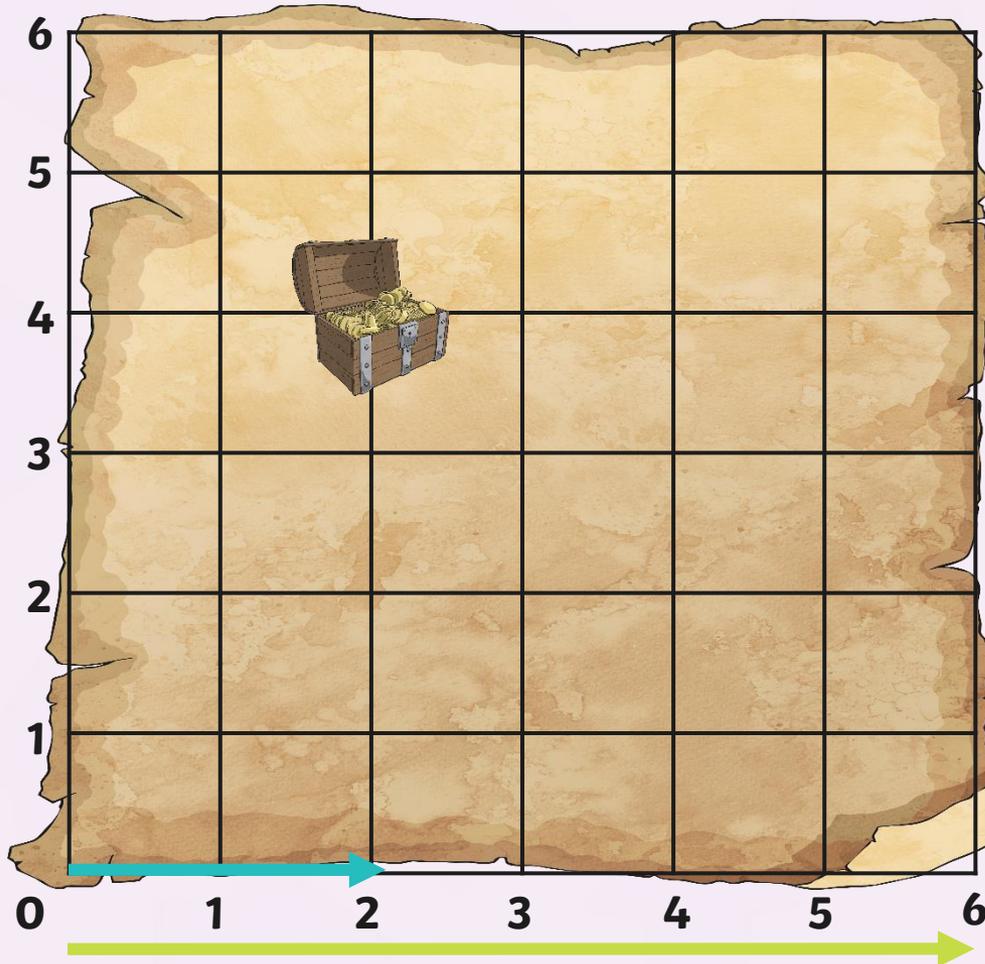
Reading Coordinates



Look carefully at the numbers across the bottom of the grid and up the side of the grid.

We will use these numbers to give the position of the treasure.

Reading Coordinates

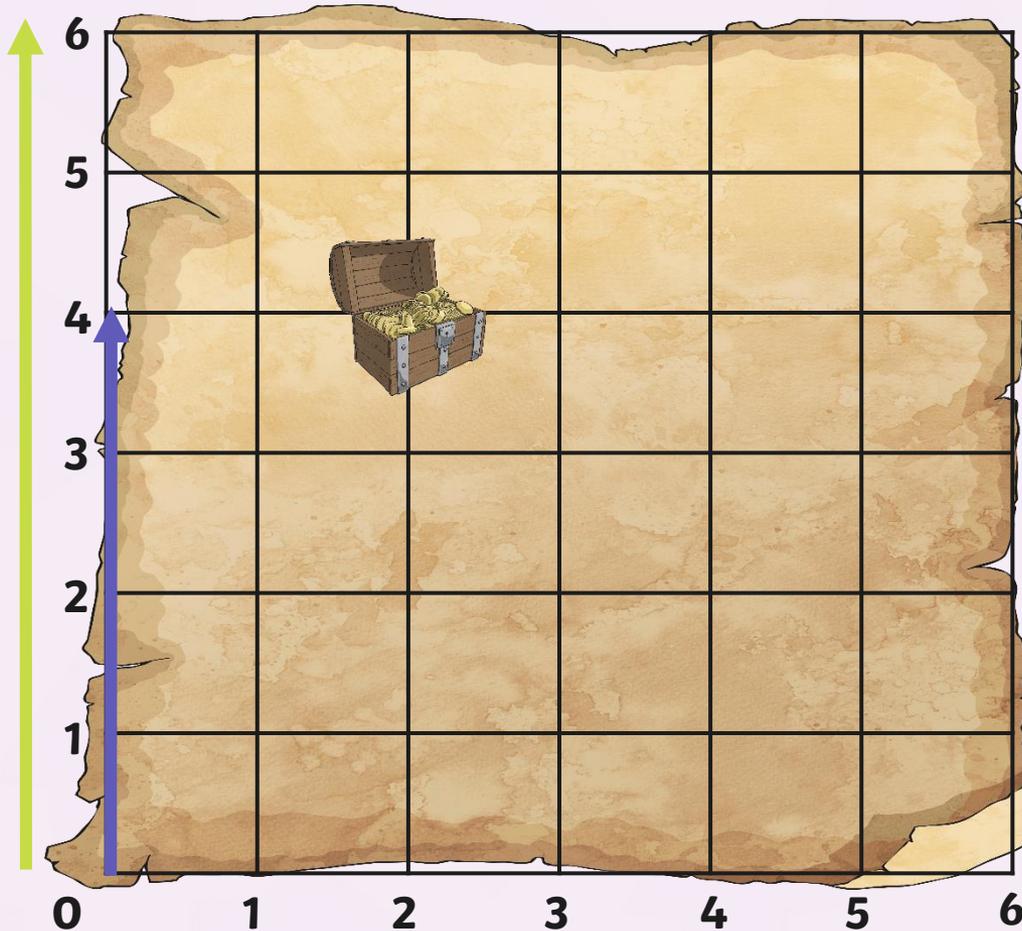


The numbers across the bottom of the grid are on the **x-axis**.

We **always** read the number on the x-axis first.

We can see that the treasure is positioned on **line number 2** of the x-axis.

Reading Coordinates

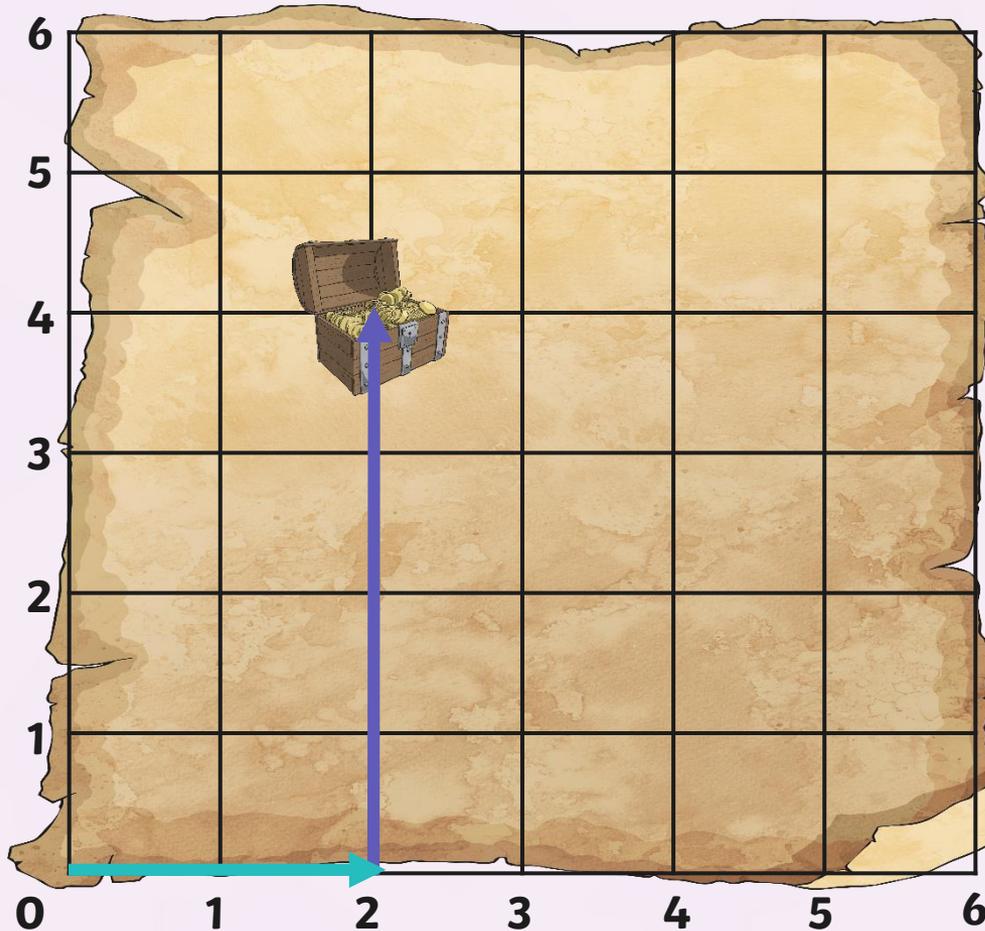


The numbers up the side of the grid are on the **y-axis**.

We **always** read the number on the y-axis **after** the x-axis.

We can see that the treasure is positioned on **line number 4** of the y-axis.

Reading Coordinates

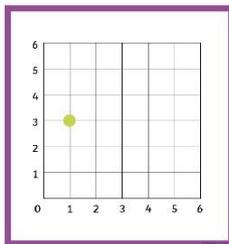
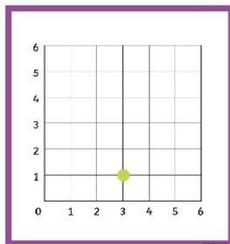


We have located that the treasure is on **line 2** of the x-axis (across) and **line 4** of the y-axis (up).

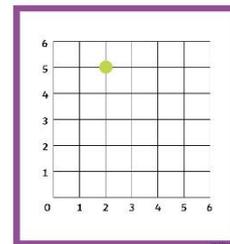
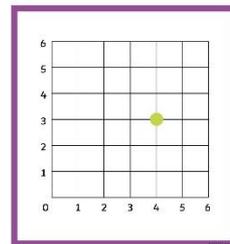
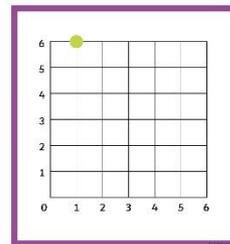
There is a special way we write this as a coordinate:

(2, 4)
x-axis y-axis

Coordinate Match Up



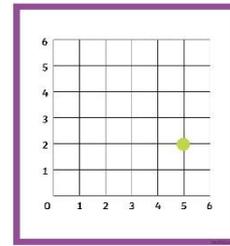
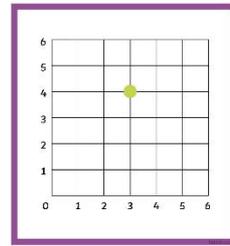
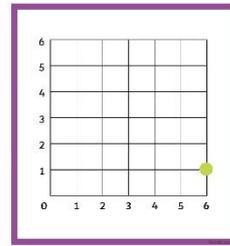
(1,6)



(4,3)

(2,5)

(6,1)



Match the coordinates with the correct grid.

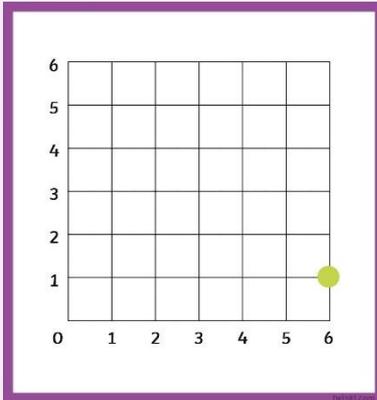
Remember to:

- read across the **x-axis** first;
- read up the **y-axis** second.

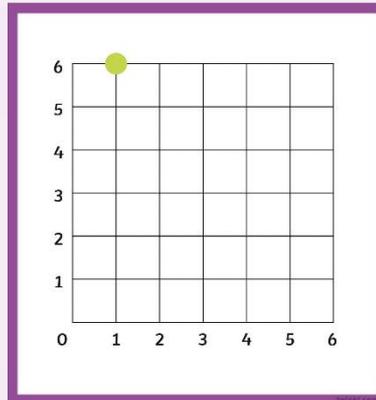
A useful tip!
An easy way to remember is 'along the corridor and up the stairs'.



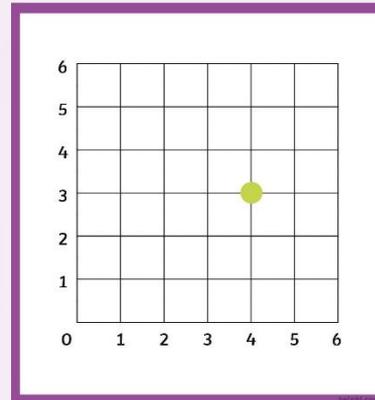
Coordinate Match Up



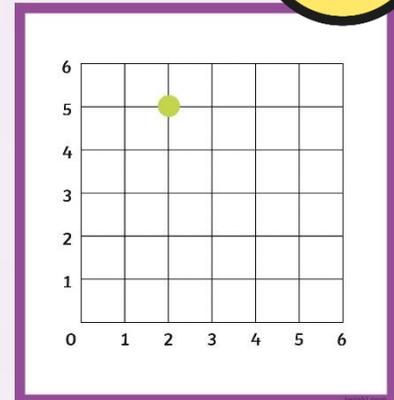
$(6,1)$



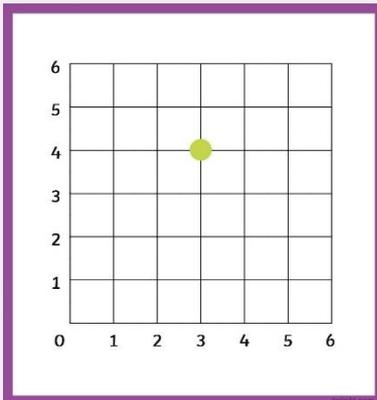
$(1,6)$



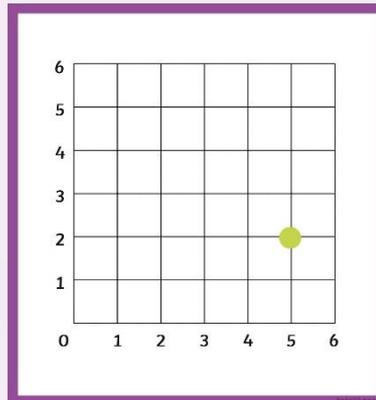
$(4,3)$



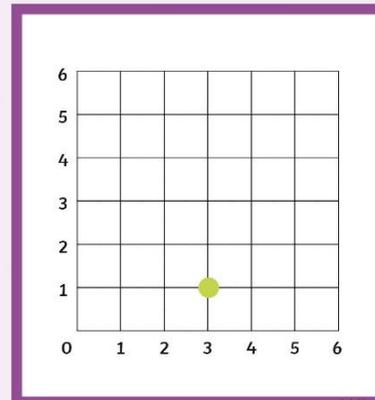
$(2,5)$



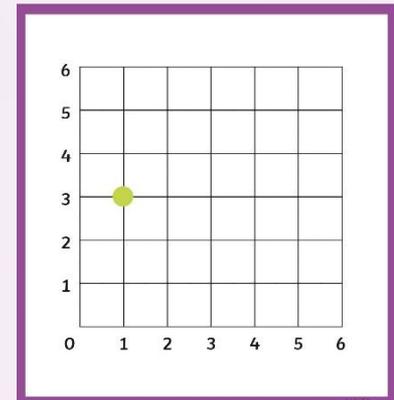
$(3,4)$



$(5,2)$



$(3,1)$



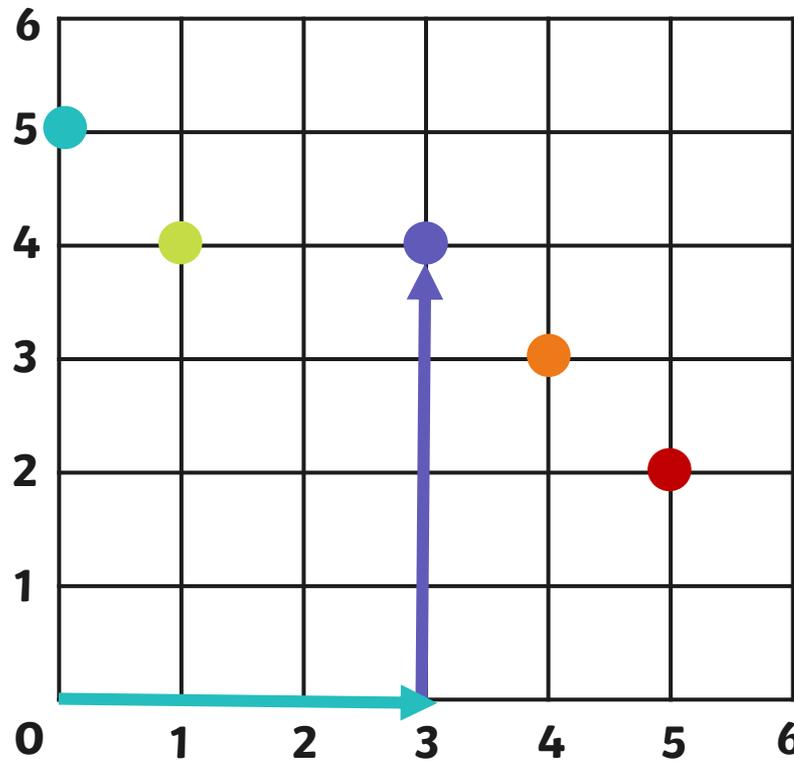
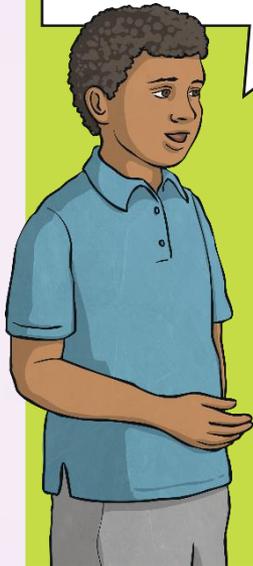
$(1,3)$

Coordinate Match Up



Click on the child who has read the coordinate correctly.
How has the other child got mixed up?

I was **correct**.
The purple
circle is at
(3,4).



I was **wrong**.
You always
read the
x-axis first!

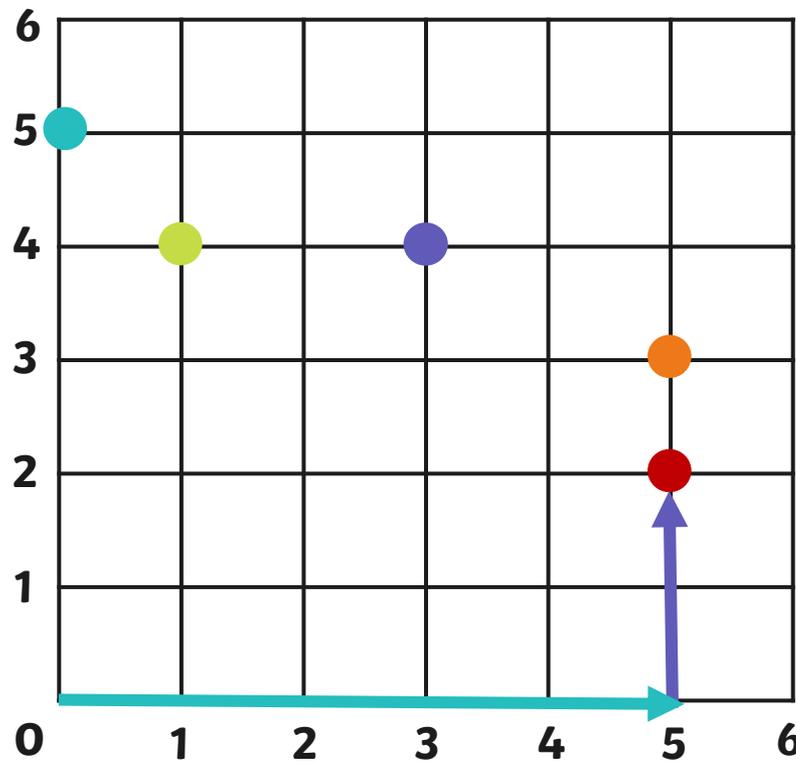
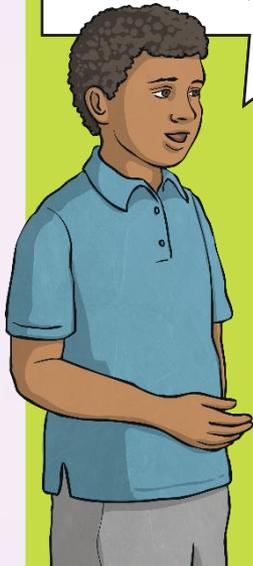


Coordinate Match Up



Click on the child who has read the coordinate correctly.
How has the other child got mixed up?

I was **wrong**.
The **orange**
circle is at
(5,3).



I was **correct**.
The red circle
is at **(5,2)**.

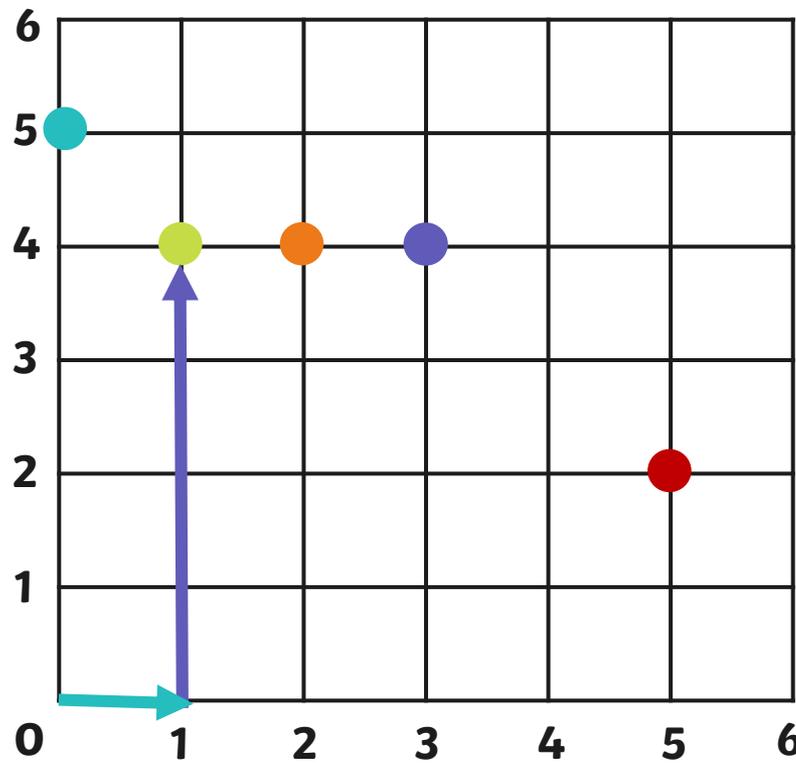
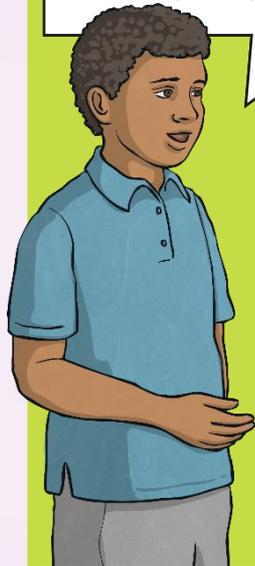


Coordinate Match Up



Click on the child who has read the coordinate correctly.
How has the other child got mixed up?

I was **wrong**.
The **orange**
circle is at
(2,4).



I was **correct**.
The **green**
circle is at
(1,4).

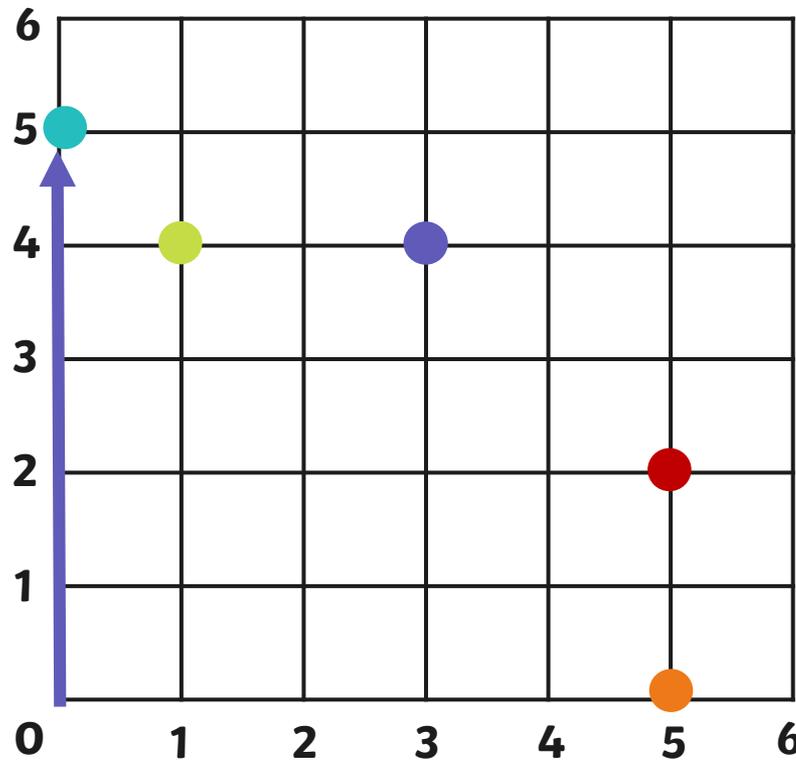
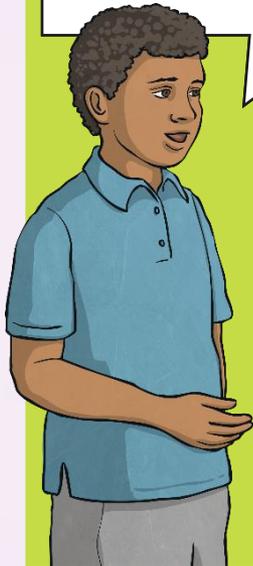


Coordinate Match Up



Click on the child who has read the coordinate correctly.
How has the other child got mixed up?

I was **correct**.
The blue circle
is at $(0,5)$.



I was **wrong**.
You always
read the
x-axis first!

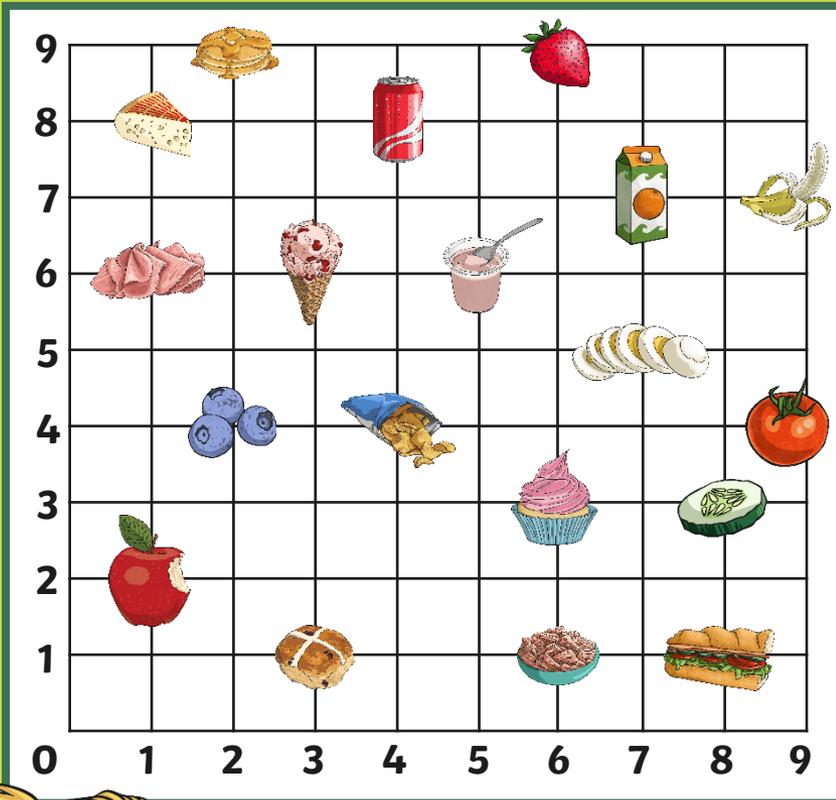


Coordinate Menus



MÉTRO

Click on the menu items the child is ordering by reading the coordinates correctly.



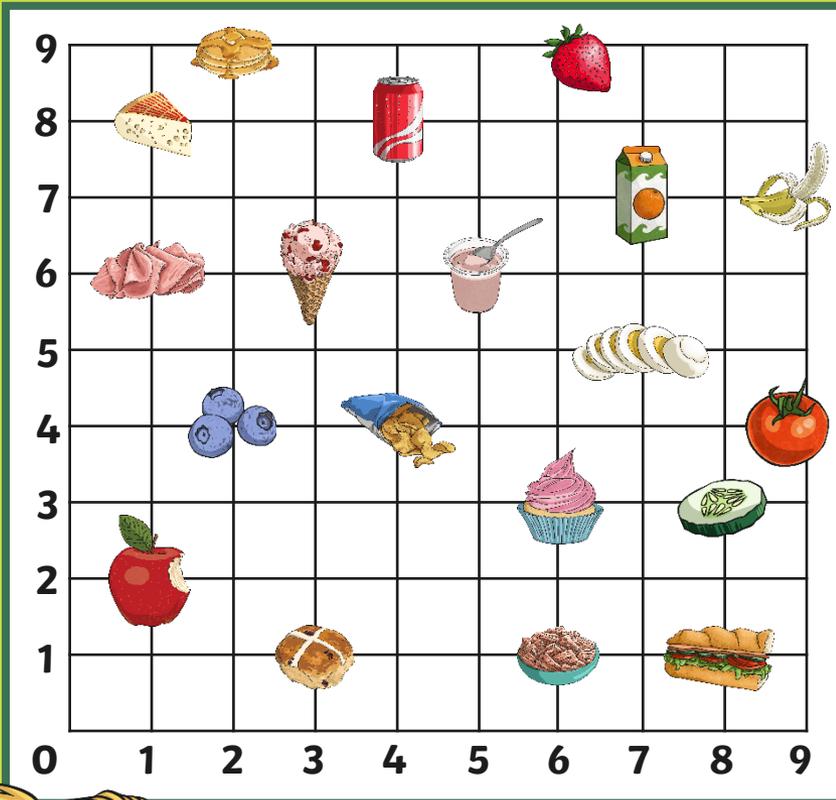
I would like to order these items please:
(7,5), (1, 8), (9,4)
and **(3,6).**

Coordinate Menu



MÉTRO

Click on the menu items the child is ordering by reading the coordinates correctly.



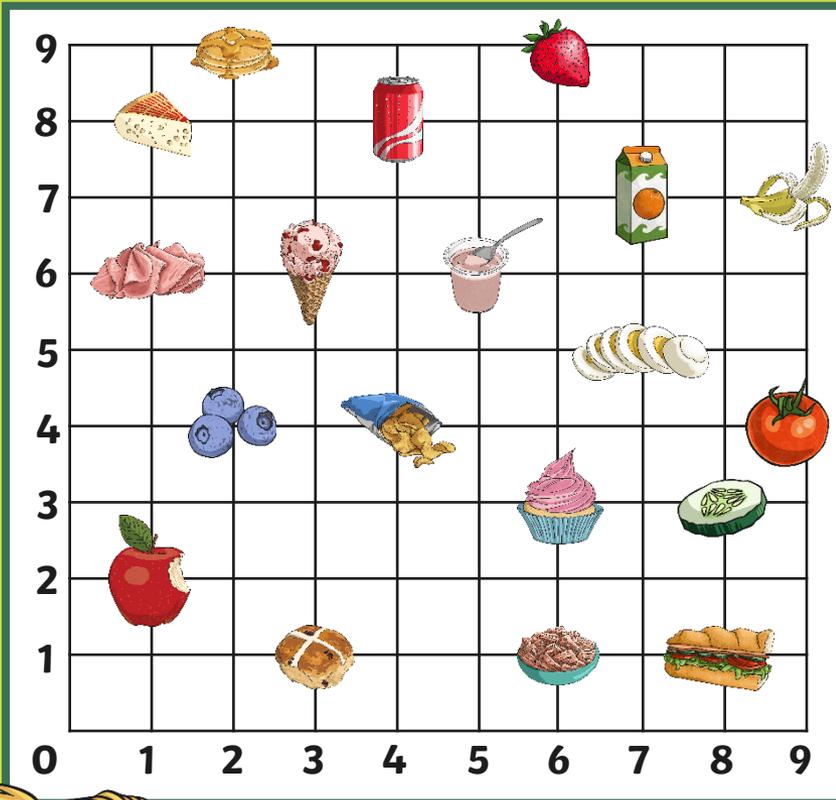
I would like to order these items please:
 $(6,3)$, $(2,4)$, $(1,2)$
and $(9,7)$.

Coordinate Menus



MÉTRO

Click on the menu items the child is ordering by reading the coordinates correctly.



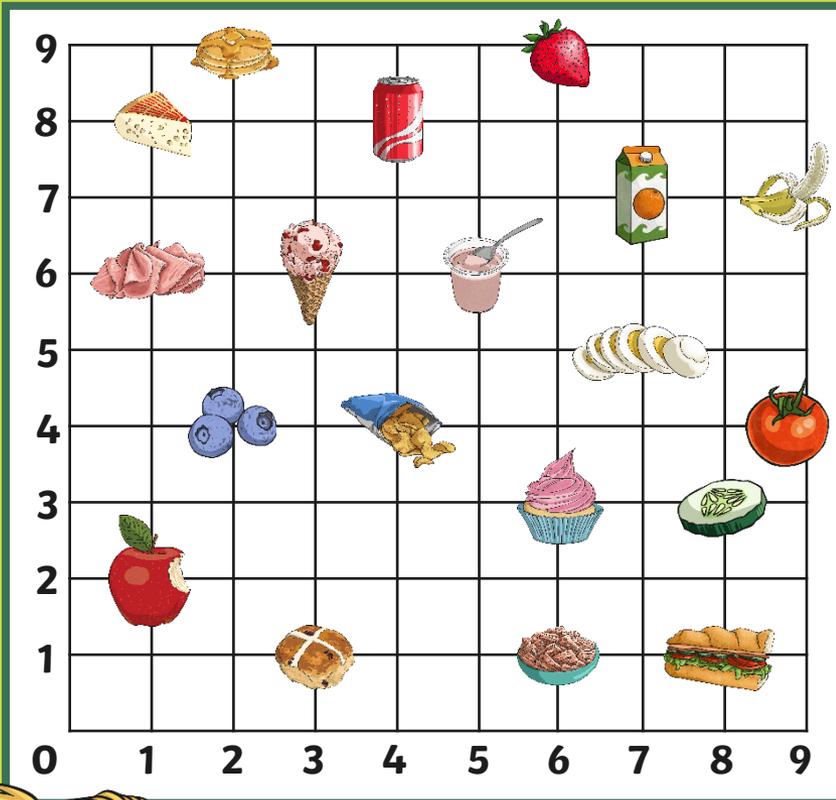
I would like to order these items please:
(7,7), (8,1), (2,9)
and **(4,8)**.

Coordinate Menus



MÉTRO

Click on the menu items the child is ordering by reading the coordinates correctly.



I would like to order these items please:
(3,1), (5,6), (6,1), (1,6) and (6,9).