Name _____ Date _____

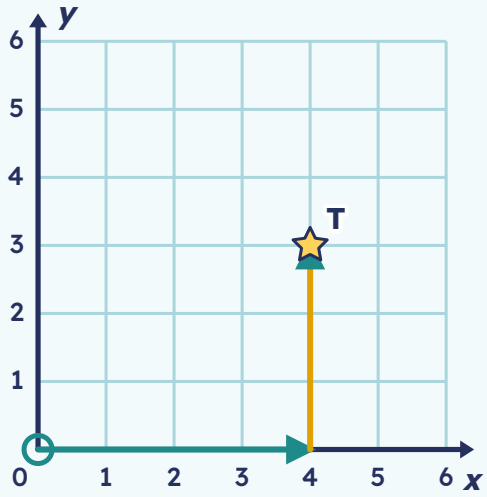
Reading coordinates

Two numbers in brackets tell you exactly where a point is on a grid.

1 Learn



Pip has buried treasure on a map! To find the spot, we use **coordinates**: first how far **across**, then how far **up**.



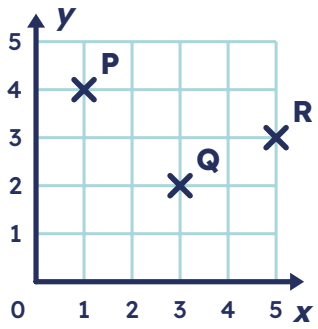
The **x-axis** goes across. The **y-axis** goes up. They meet at the **origin**, (0, 0), ringed on the map.

Where is the treasure T?

1. Start at the origin, (0, 0).
2. Go **across** to the line marked **4**.
3. Go **up** to the line marked **3**.
4. Write the across number first: **(4, 3)**

Points sit where two grid lines cross, not in the squares.

Flip's tip: "**along the corridor, then up the stairs**". You walk across before you climb, so the across number always comes first.



Warm up: write the coordinates of each point.

P (____ , ____)

Q (____ , ____)

R (____ , ____)

Grown-ups: ask your child to trace the route with a finger: start at (0, 0), slide across, then up. Say the numbers out loud: "4 across, 3 up". Counting starts at 0 at the origin, not 1.

Name _____ Date _____

2 Try it together

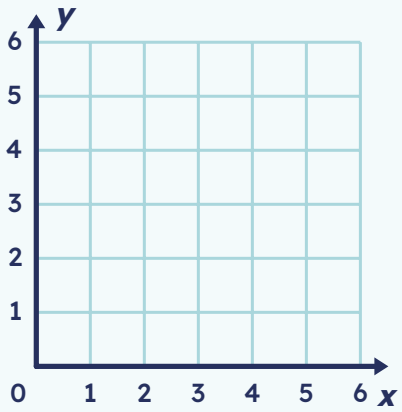
a child and a grown-up, about 10 minutes



Hide the treasure

You need: a button, a dried pea or a small coin for the treasure, and a pencil.

1. The grown-up puts the treasure on the map where two lines cross.
2. The child says where it is, across first, then up, and writes it in the table.
3. Check: put a finger on (0, 0), go across, then up. Did you reach the treasure?
4. Swap. Grown-ups: say one answer the wrong way round on purpose. Can your child catch you?

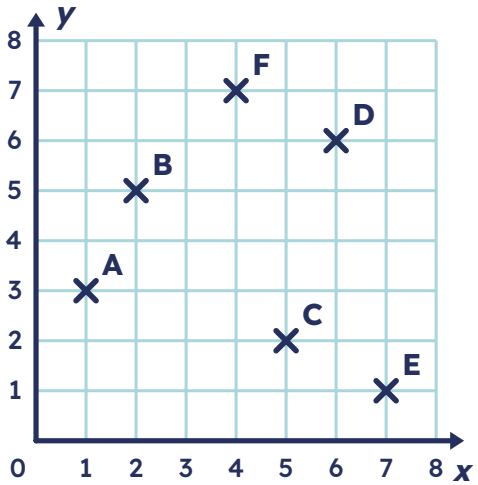


Round	Treasure is at	Checked
1	(,)	
2	(,)	
3	(,)	

Grown-ups: try a round with the treasure on an axis, like (0, 5) or (3, 0). The 0 means "no steps that way".

3 Practise

A. Write the coordinates of each point on Pip's map.



A (____ , ____)

B (____ , ____)

C (____ , ____)

D (____ , ____)

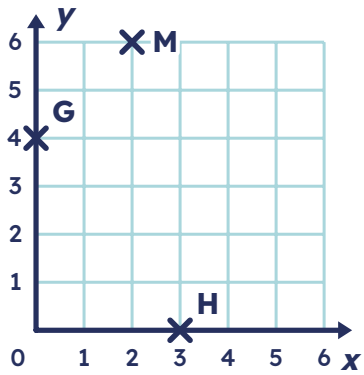
E (____ , ____)

F (____ , ____)

Reading coordinates

Name _____ Date _____

B. These points are harder. Draw a ring round the right coordinates.



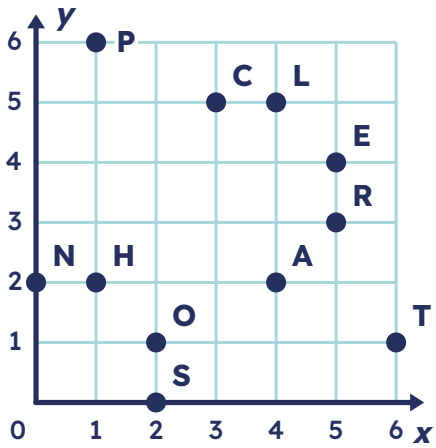
G (4, 0) (0, 4) (1, 5)

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

M (6, 2) (3, 7) (2, 6)

The point where the axes meet: (1, 1) (0, 0) (0, 1)

C. Secret word! Find the letter at each pair of coordinates.



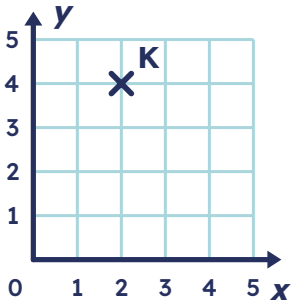
(3, 5)	(1, 2)	(5, 4)	(2, 0)	(6, 1)

Where does Pip keep the treasure?

If your word makes no sense, check you went across first!

Challenge

Leo says point K is at **(4, 2)**. Is he right? Explain how you know.



I can... Tick when you can.

- ☐ point to the x-axis, the y-axis and the origin
- ☐ write coordinates with the across number first
- ☐ read a point that sits on an axis, like (0, 4)