

# POSITION AND DIRECTION- DAY 1

To be able to describe positions in the first quadrant

# SUCCESS CRITERIA

- ✓ I can read coordinates when both the  $x$  and  $y$  coordinates have a positive value
- ✓ I can explain my reasoning when reading coordinates when both the  $x$  and  $y$  coordinates have a positive value

## STARTER

Many people use the phrase “Go along the corridor and up the stairs” to help them remember how to read or plot coordinates.

Using your own words, or using some of the words below, write your own saying:

runway

tower

stream

stars

escalator

path

sky

pavement

river

mountain

road

steps

ladder

hallway

space

the ground

## STARTER

Many people use the phrase “Go along the corridor and up the stairs” to help them remember how to read or plot coordinates.

Example: *Along the hallway and up the escalator.*

runway

tower

stream

stars

escalator

path

sky

pavement

river

mountain

road

steps

ladder

hallway

space

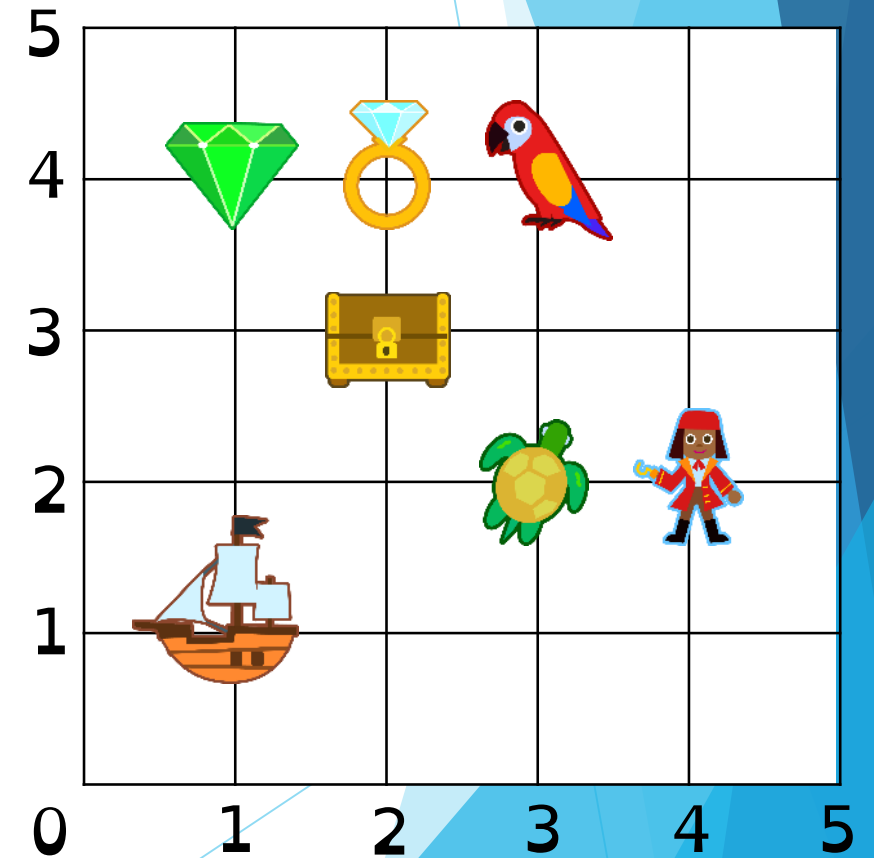
the ground

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The \_\_\_\_\_ is next to the pirate.

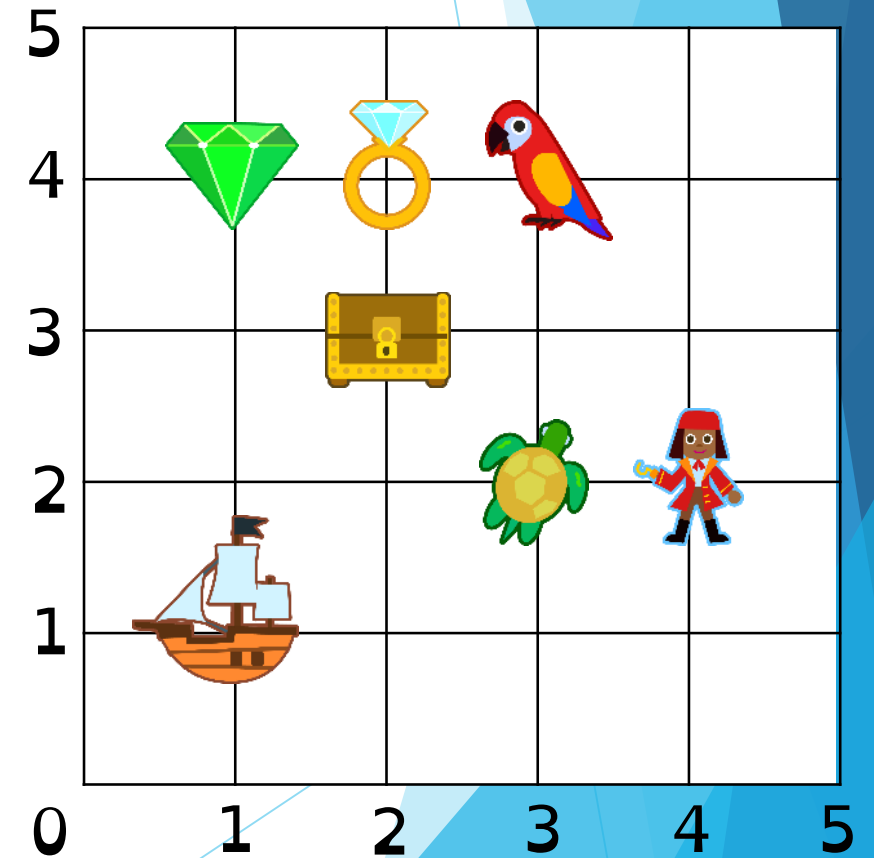


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The turtle is next to the pirate.

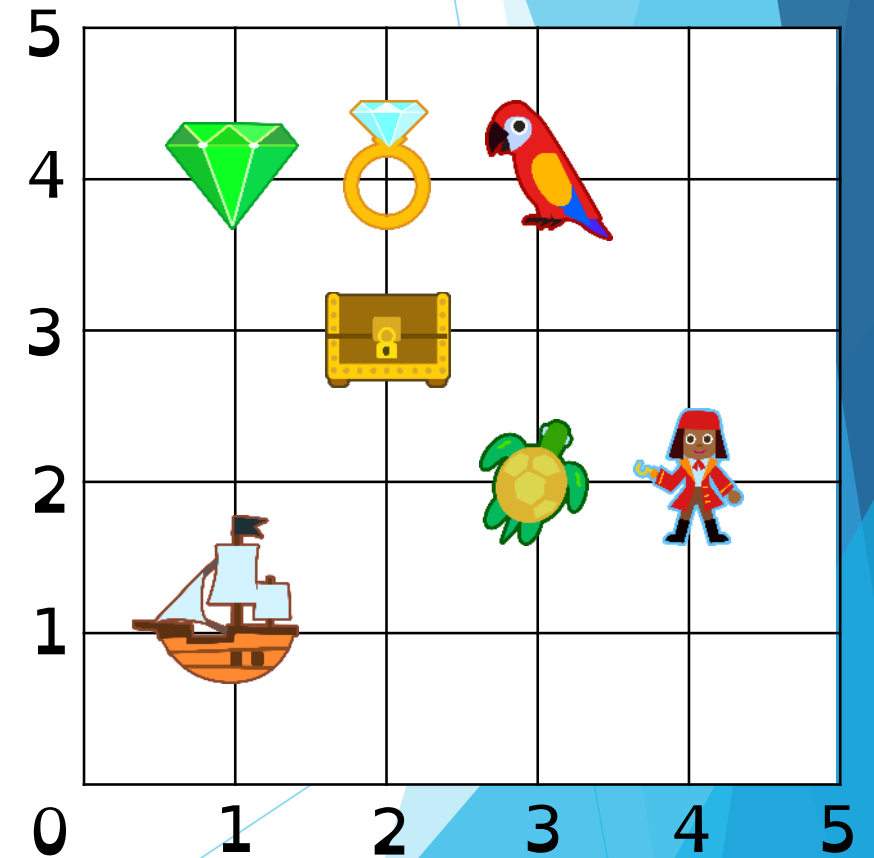


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The \_\_\_\_\_ is next to the parrot.

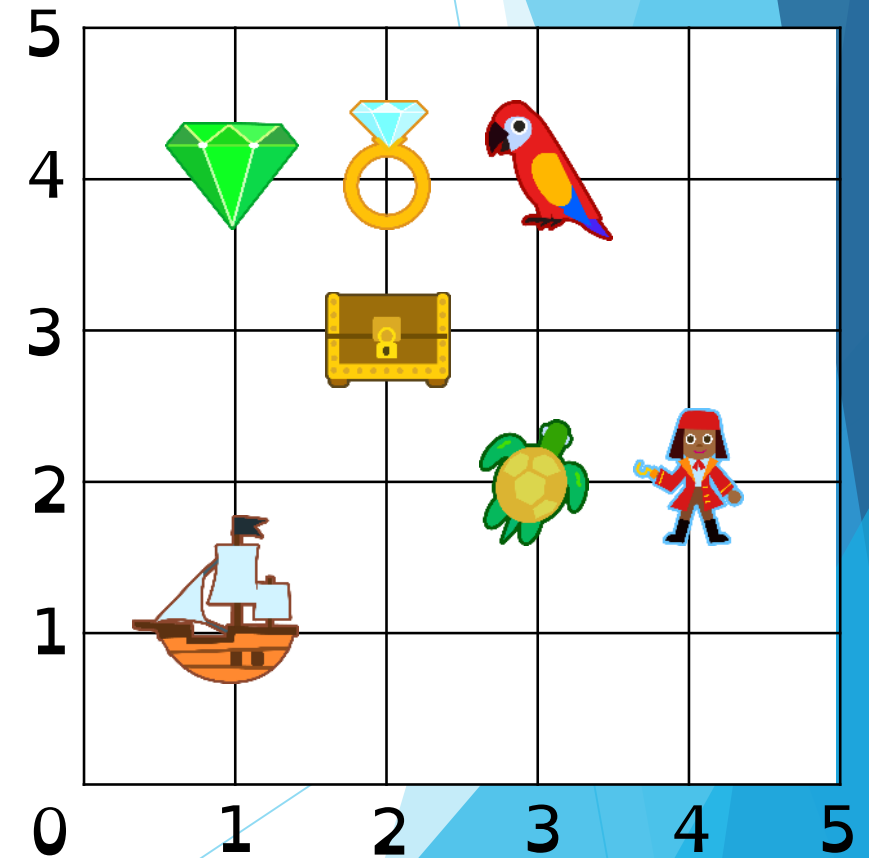


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The ring is next to the parrot.



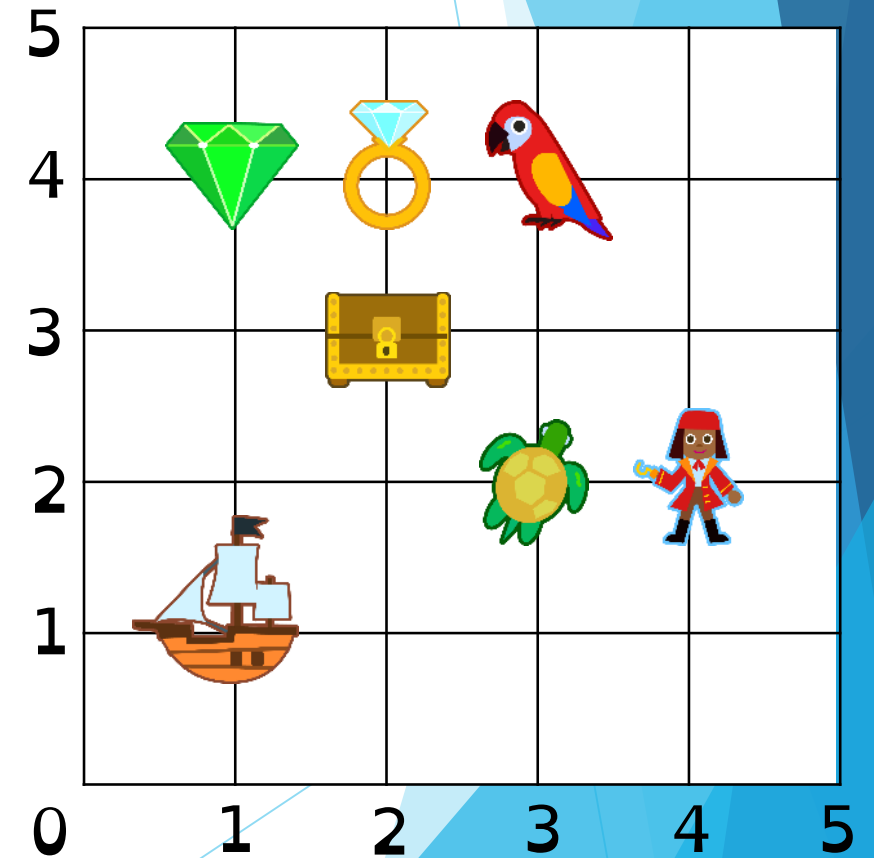


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The ship has the coordinates (1,1).

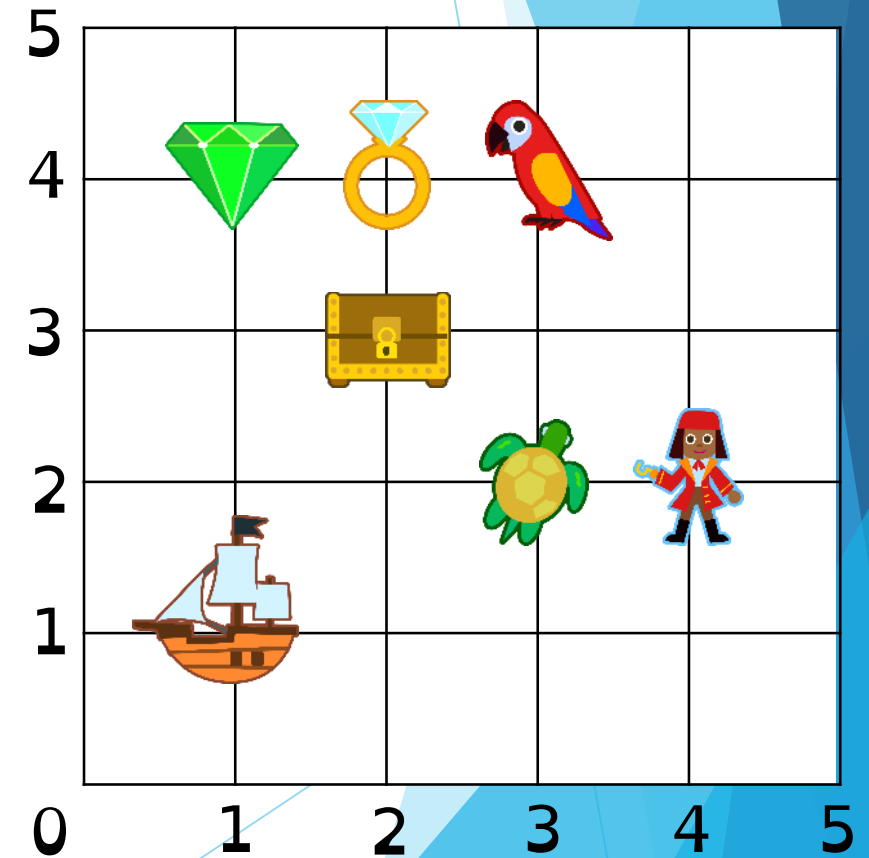


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The ship has the coordinates (1,1).

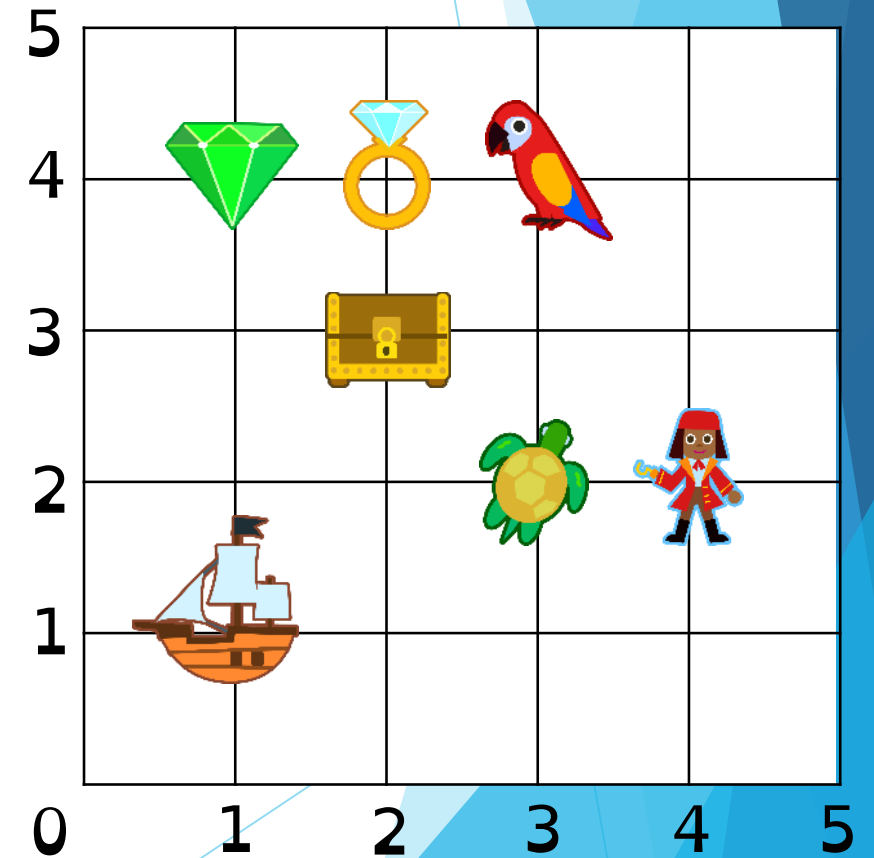


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The chest has the coordinates (2,3).

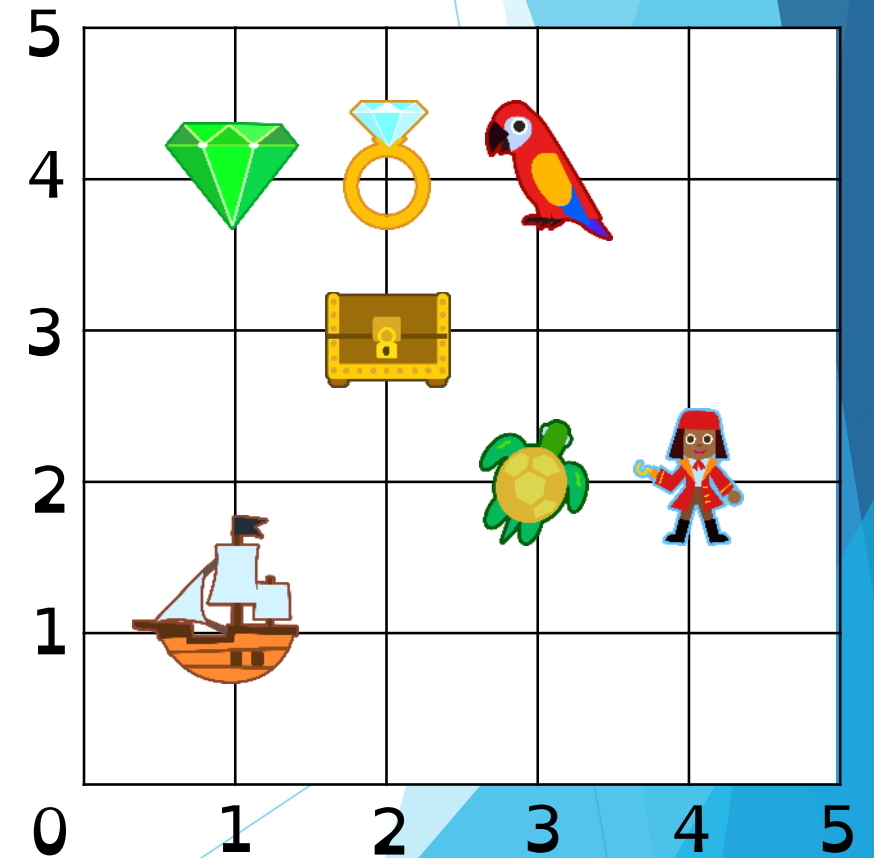


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The chest has the coordinates (2,3).

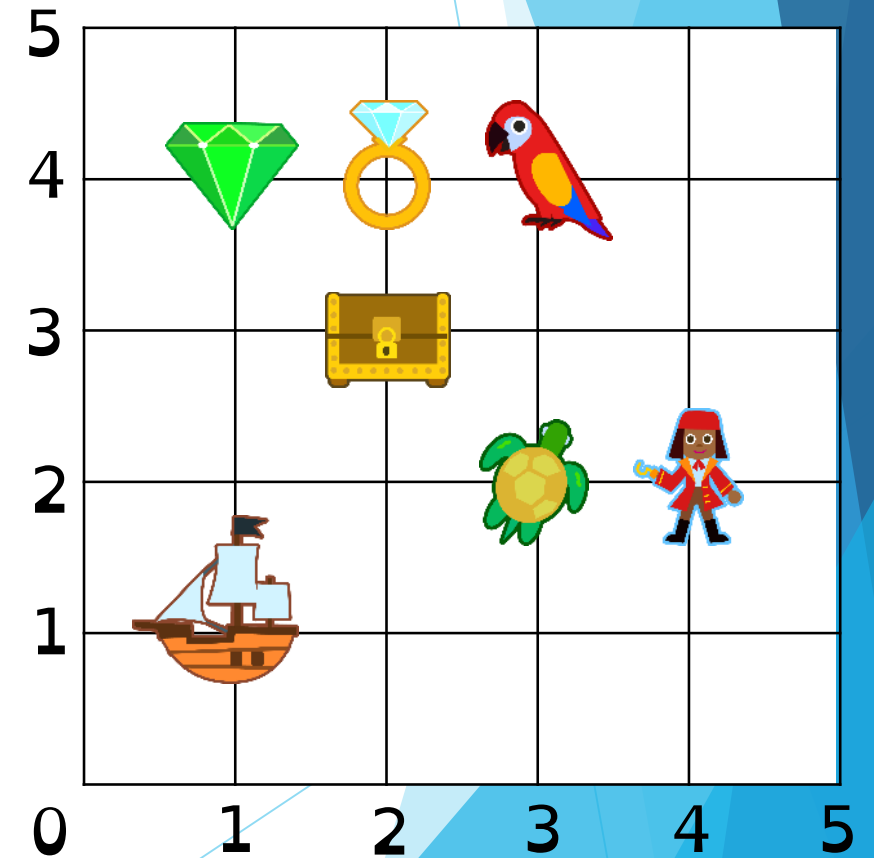


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The parrot's coordinates are ( \_ , \_ ).

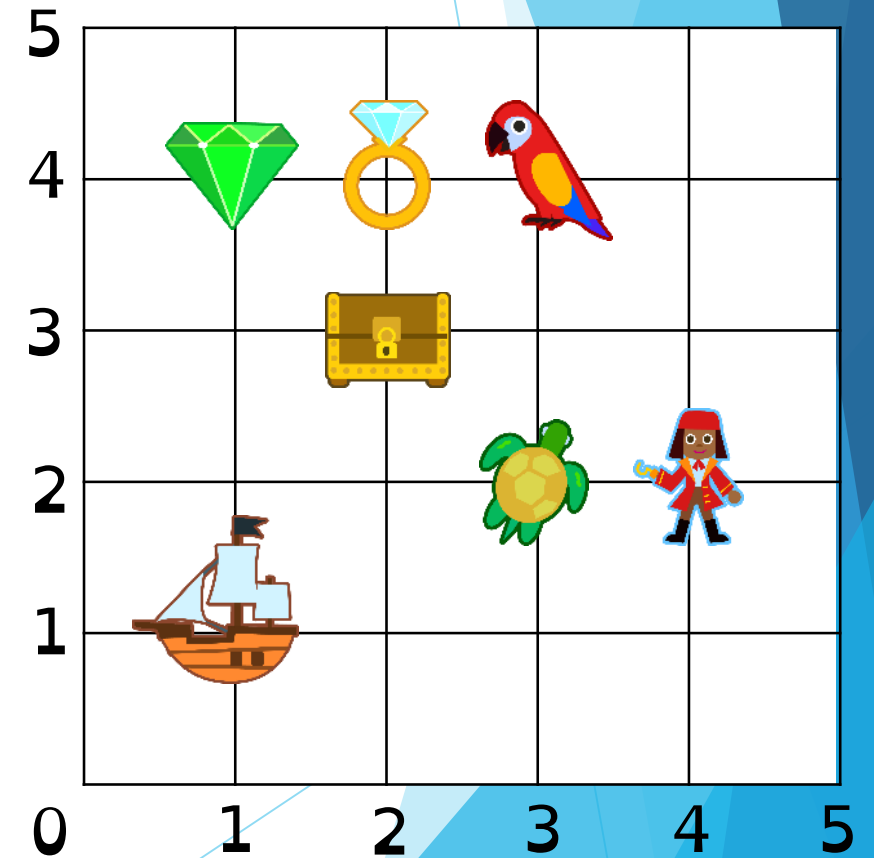


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The parrot's coordinates are (3,4).

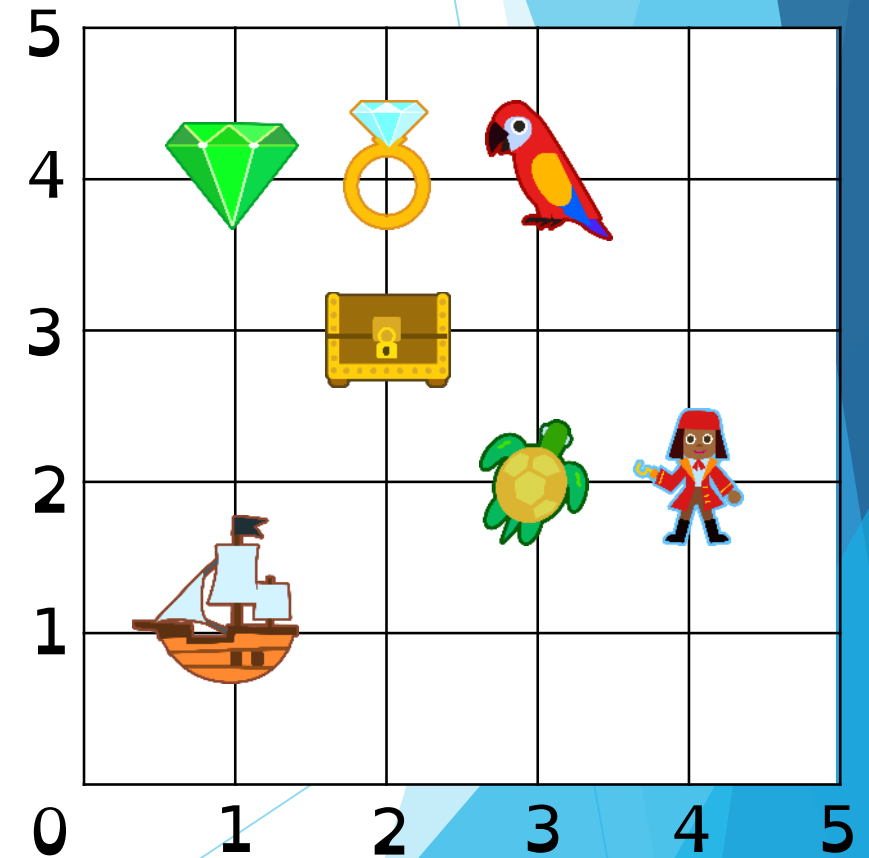


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The pirate's coordinates are (\_\_,\_\_).

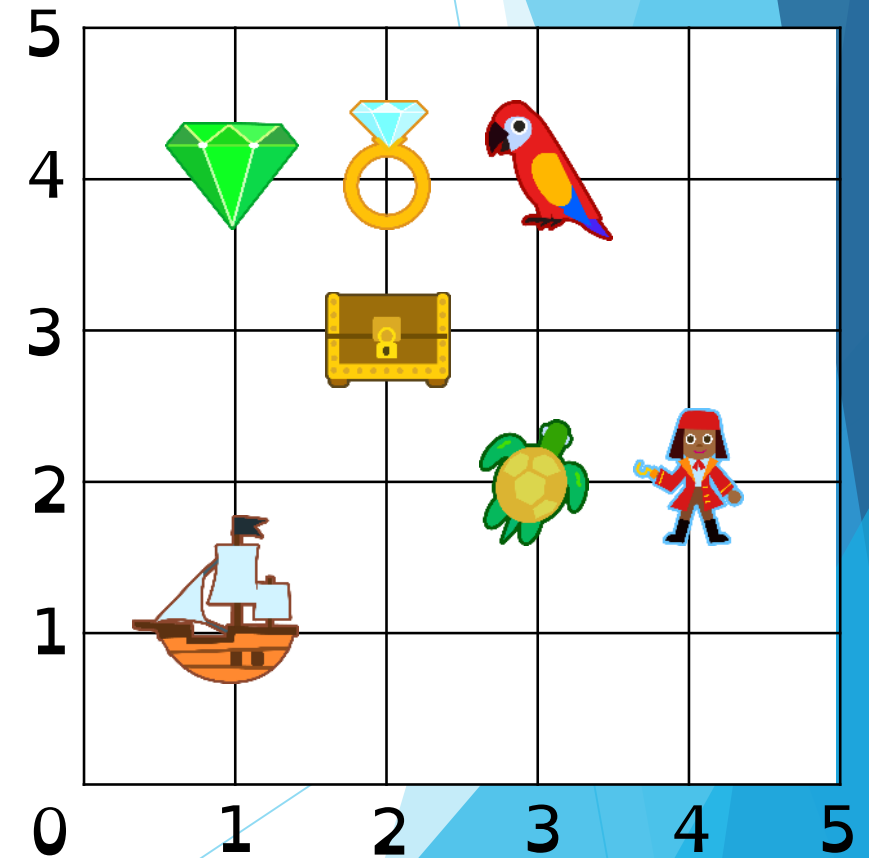


To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

The pirate's coordinates are (4,2).





## To be able to describe positions in the first quadrant

Activity 1:

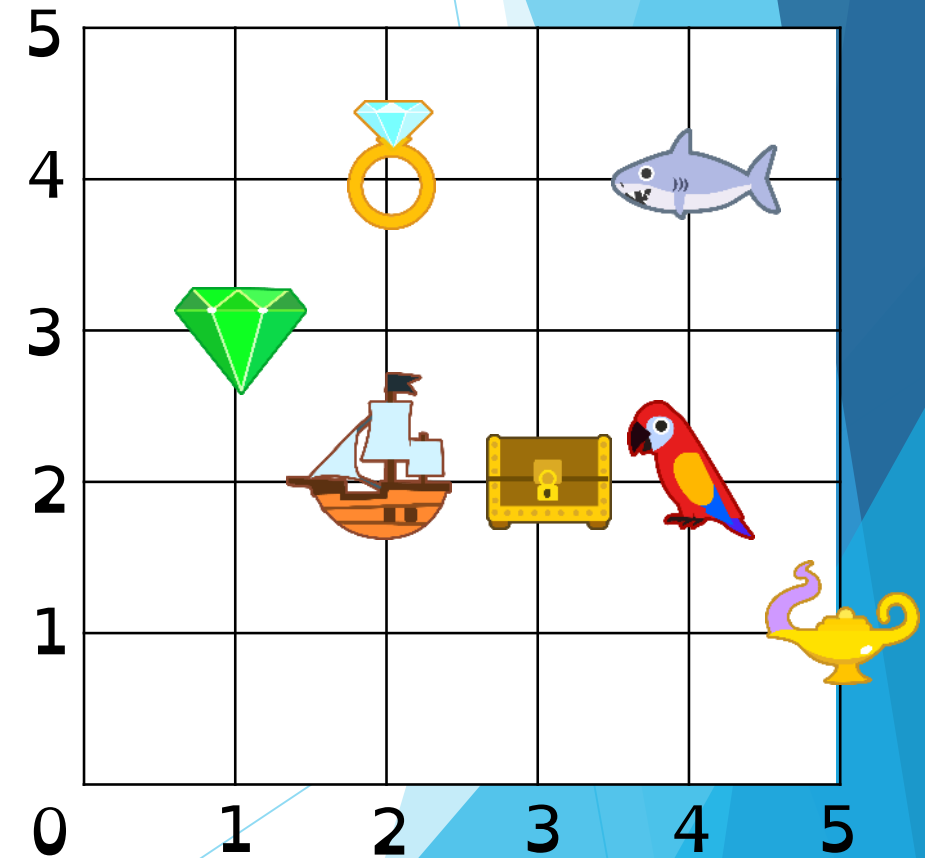
Complete the sentences below.

The ship is next to the \_\_\_\_\_.

The \_\_\_\_\_ is above the parrot.

The ring has the coordinates (\_\_, \_\_).

The lamp's coordinates are (\_\_, \_\_).



## To be able to describe positions in the first quadrant

Activity 1:

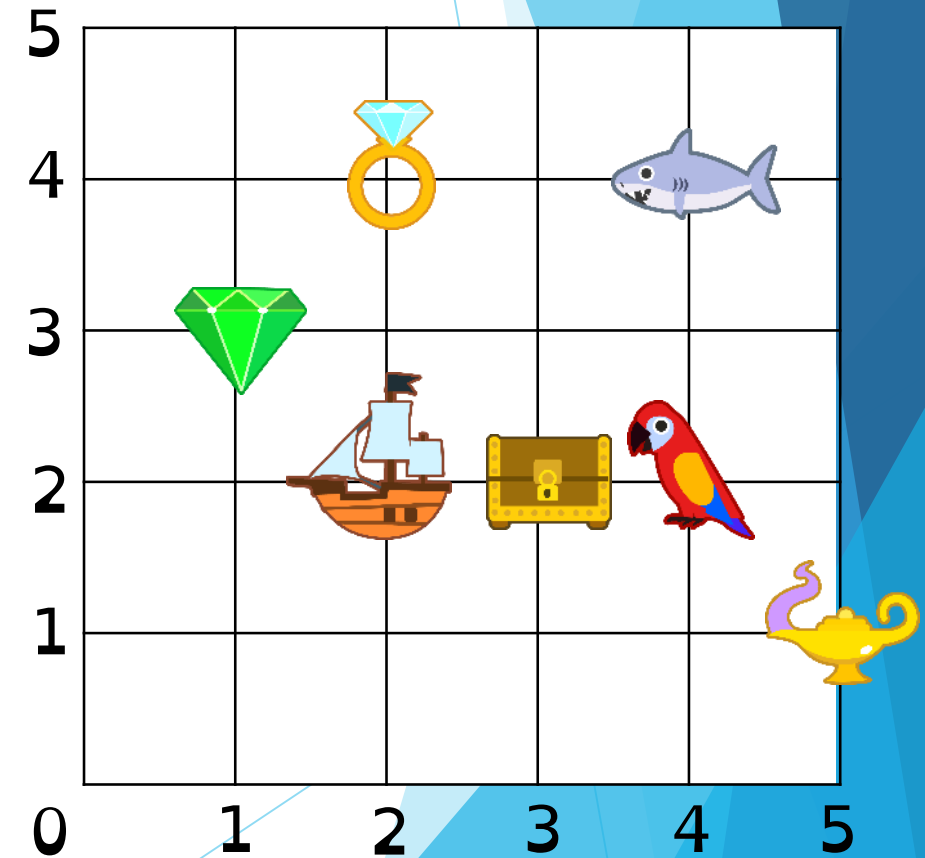
Complete the sentences below.

The ship is next to the chest.

The shark is above the parrot.

The ring has the coordinates (2,4).

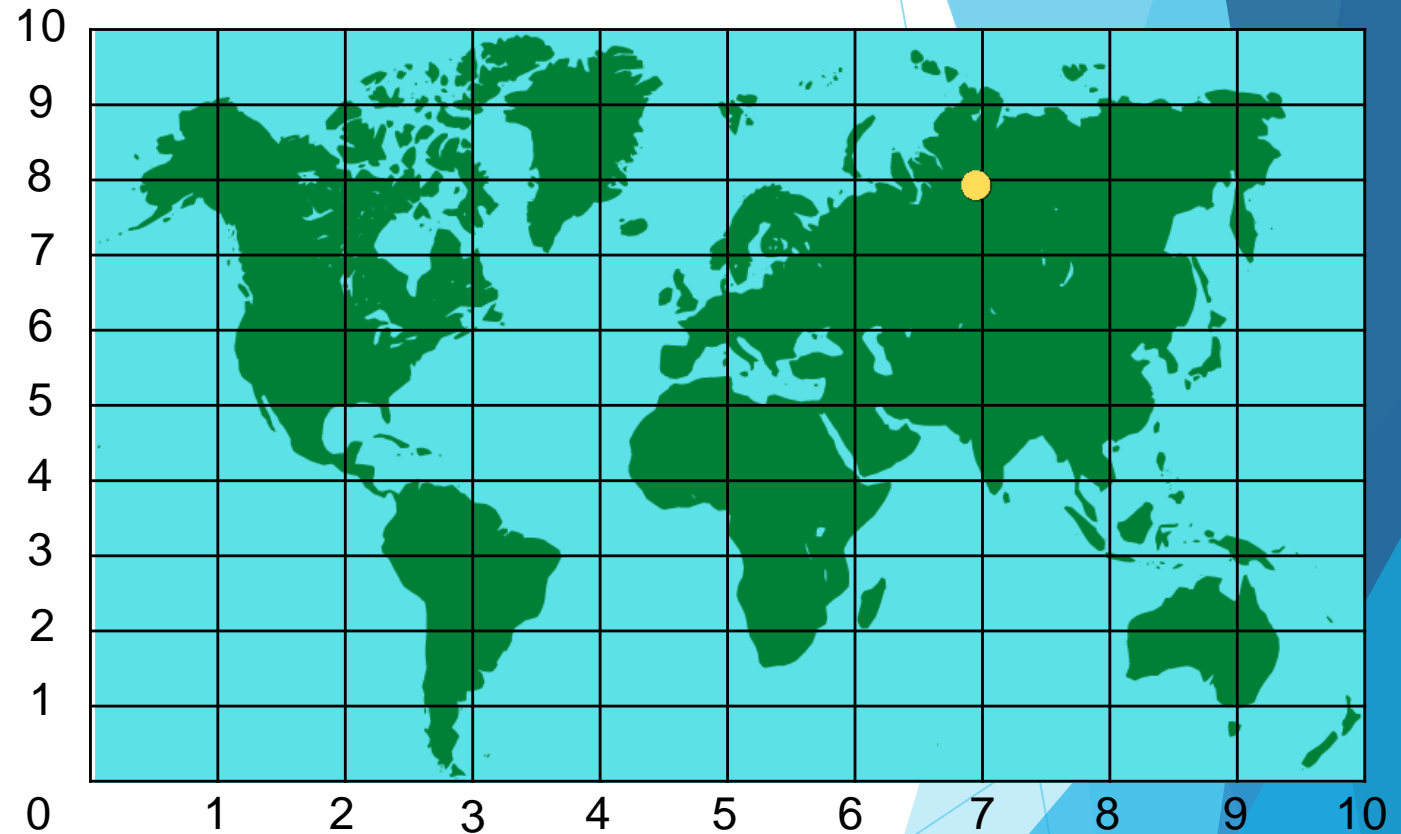
The lamp's coordinates are (5,1).



To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

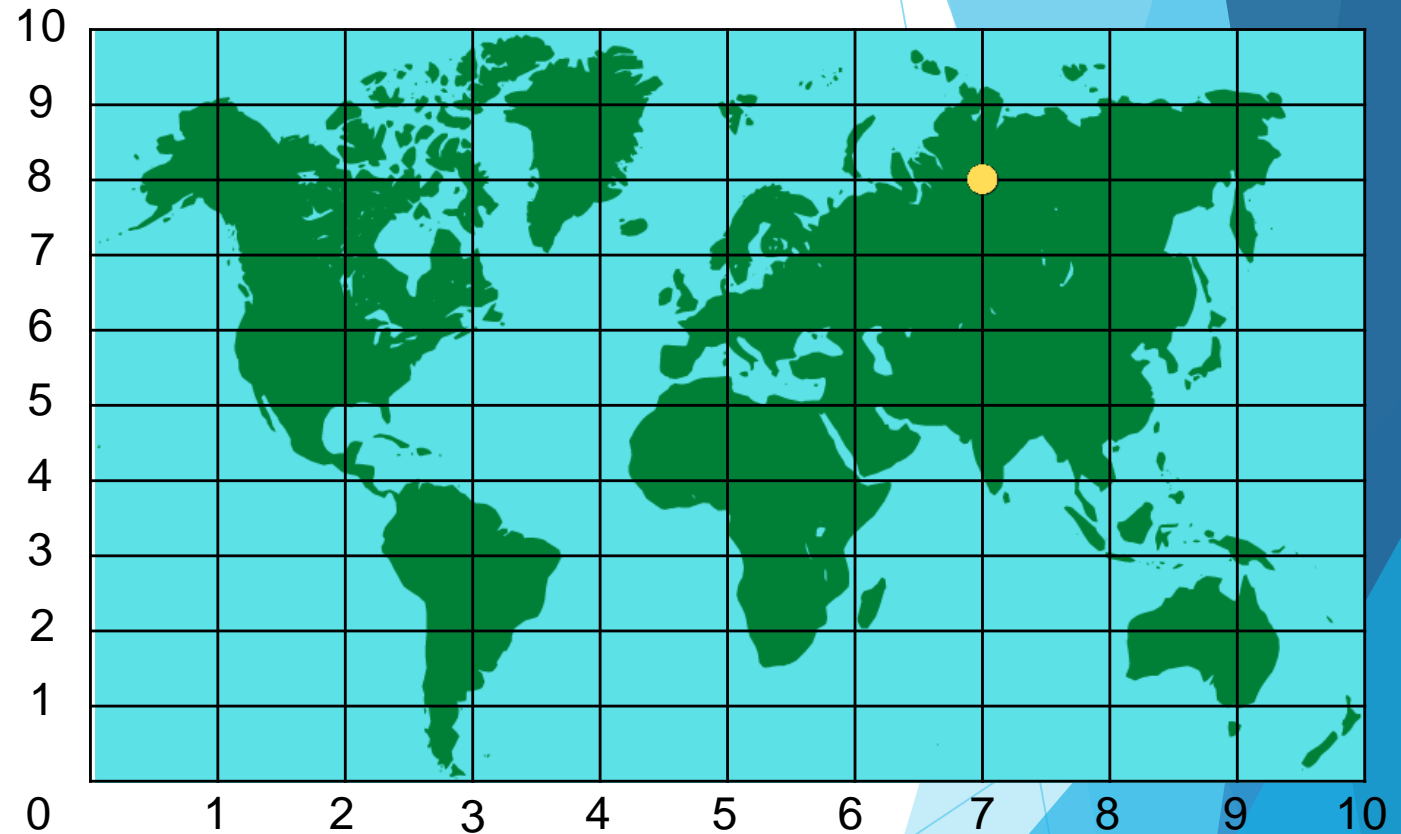


Russia's yellow point is at (\_\_, \_\_).

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

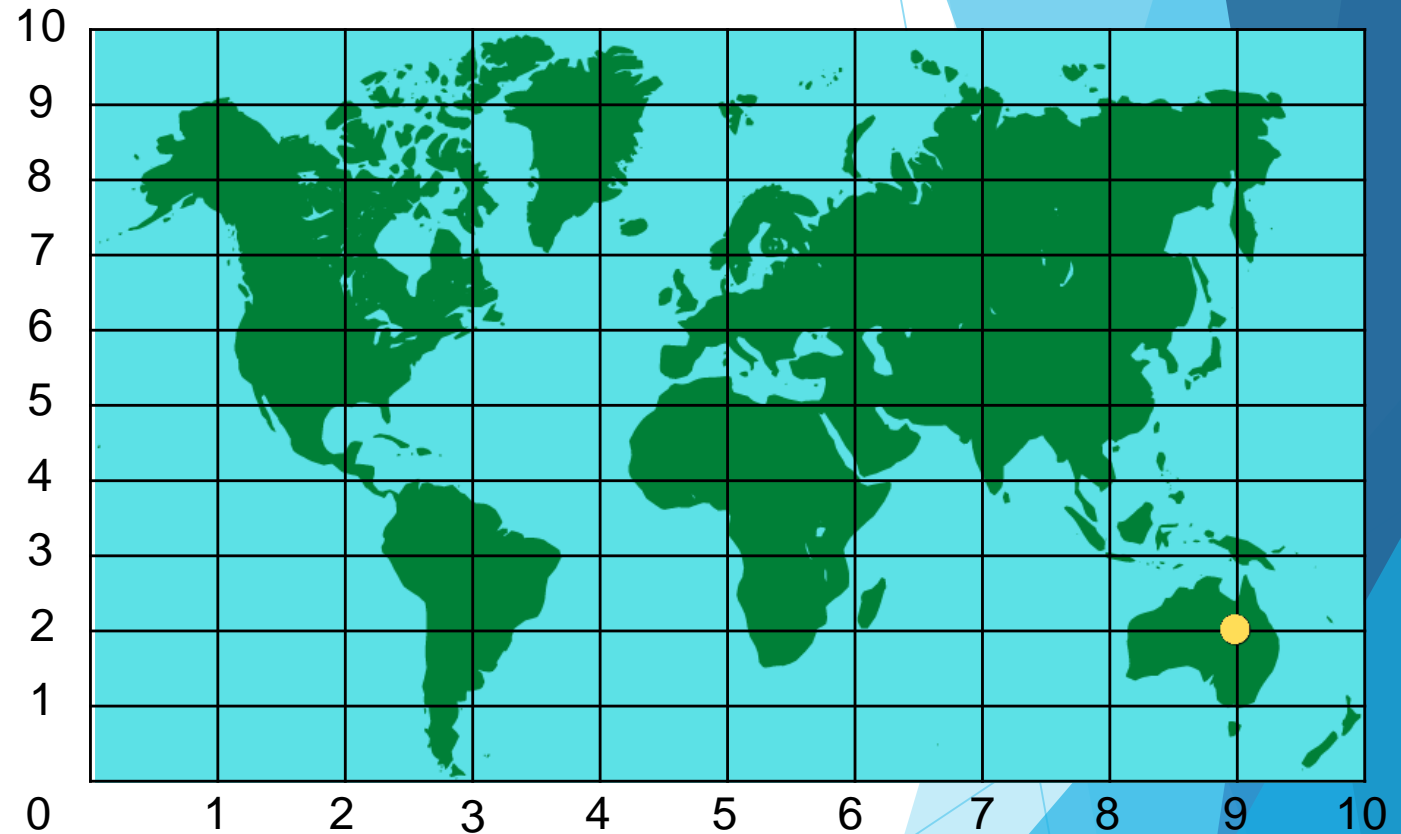


Russia's yellow point is at (7,8).

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

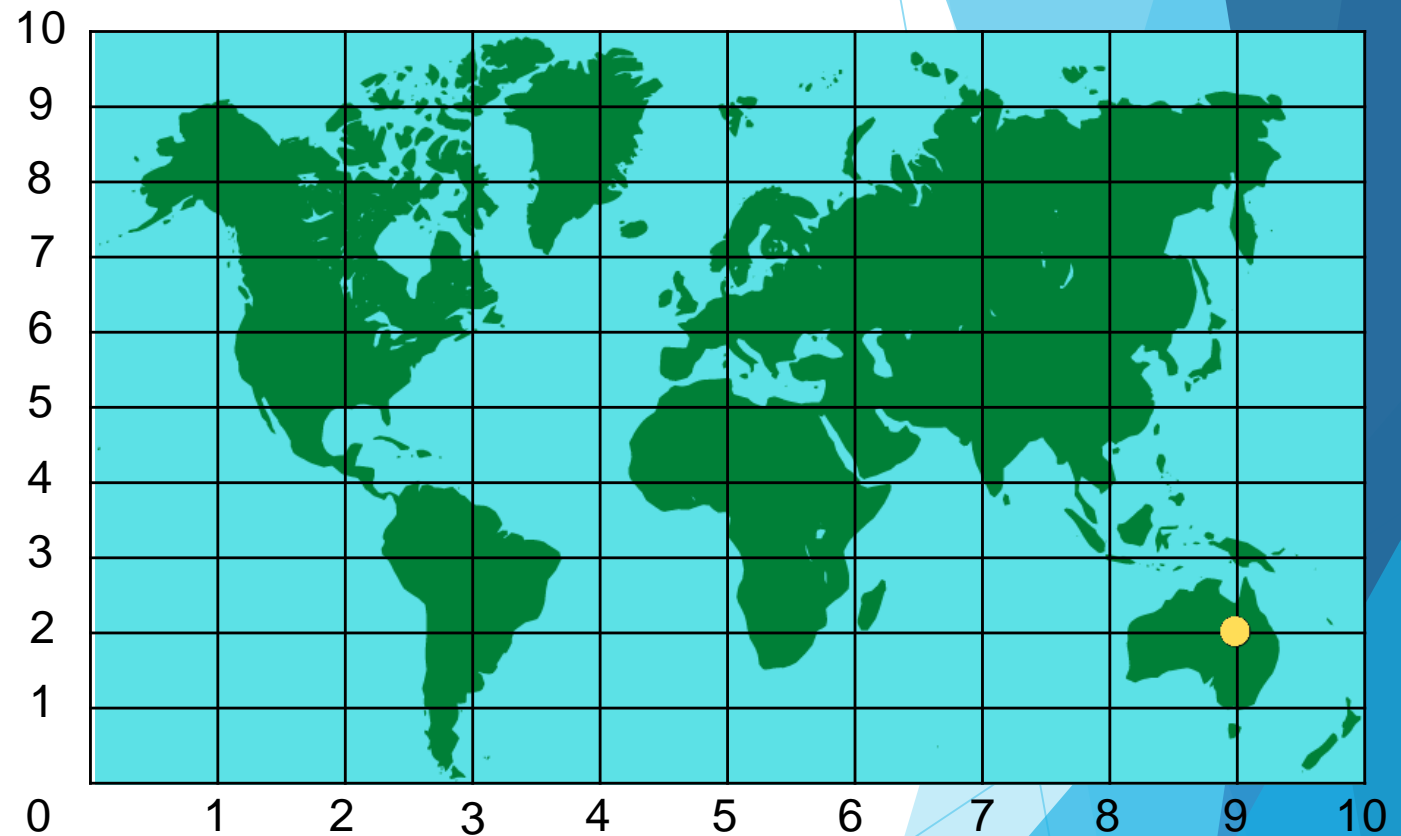


Australia's yellow point is at (\_\_, \_\_).

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

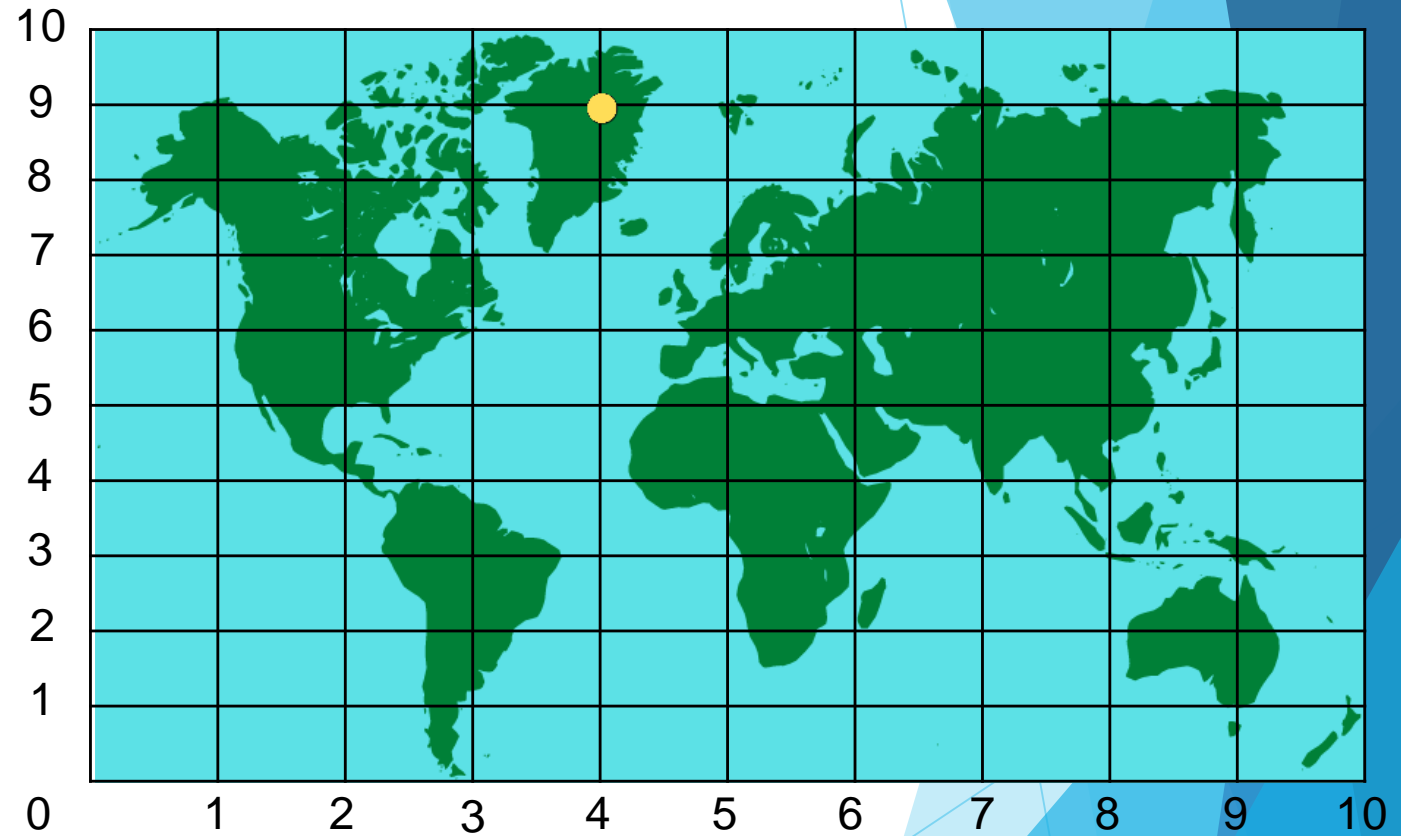


Australia's yellow point is at (9,2).

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.

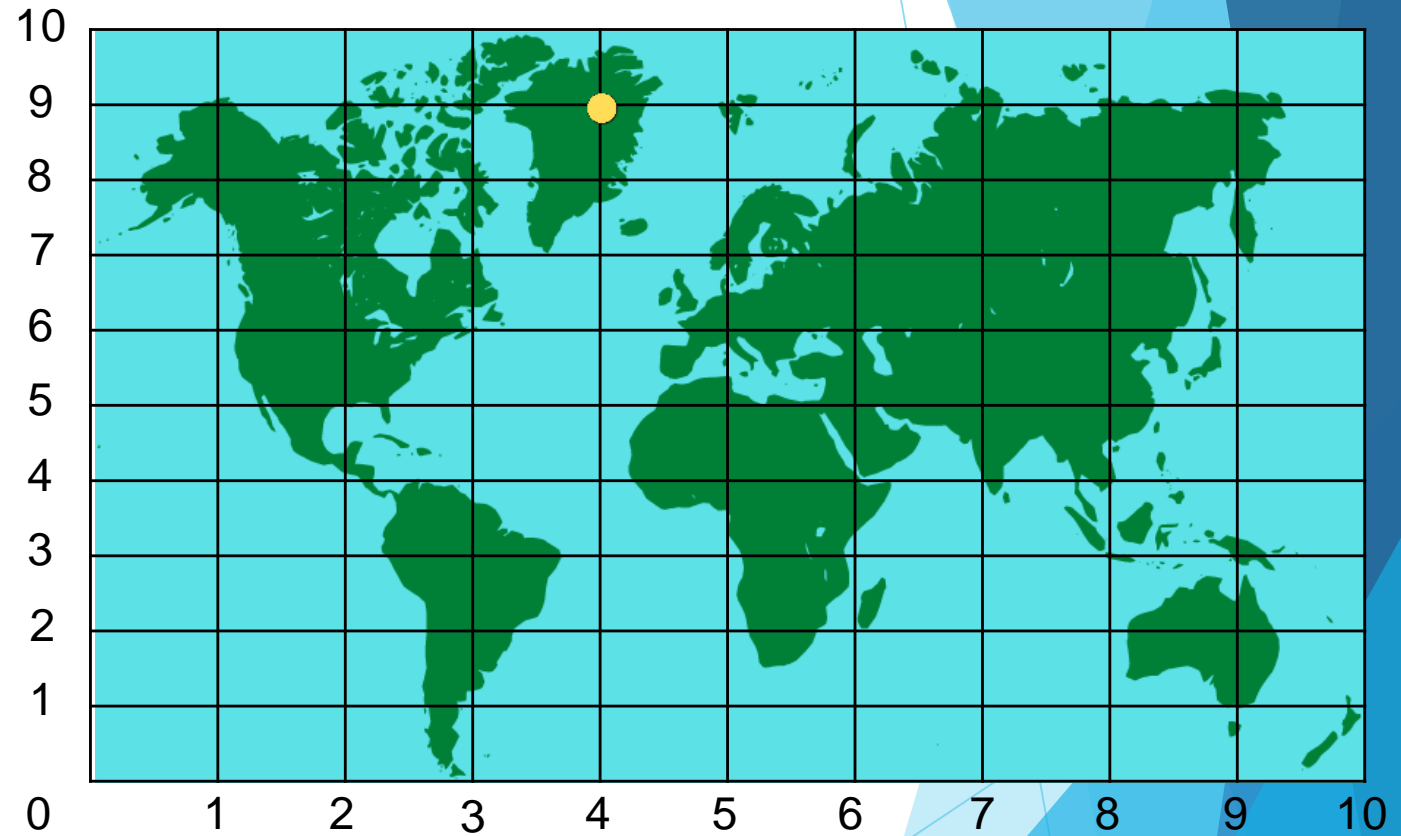


Greenland's yellow point is at (\_\_, \_\_).

To be able to describe positions in the first quadrant

Talking Time:

Complete the sentence below.



Greenland's yellow point is at (4,9).



## To be able to describe positions in the first quadrant

Activity 2:

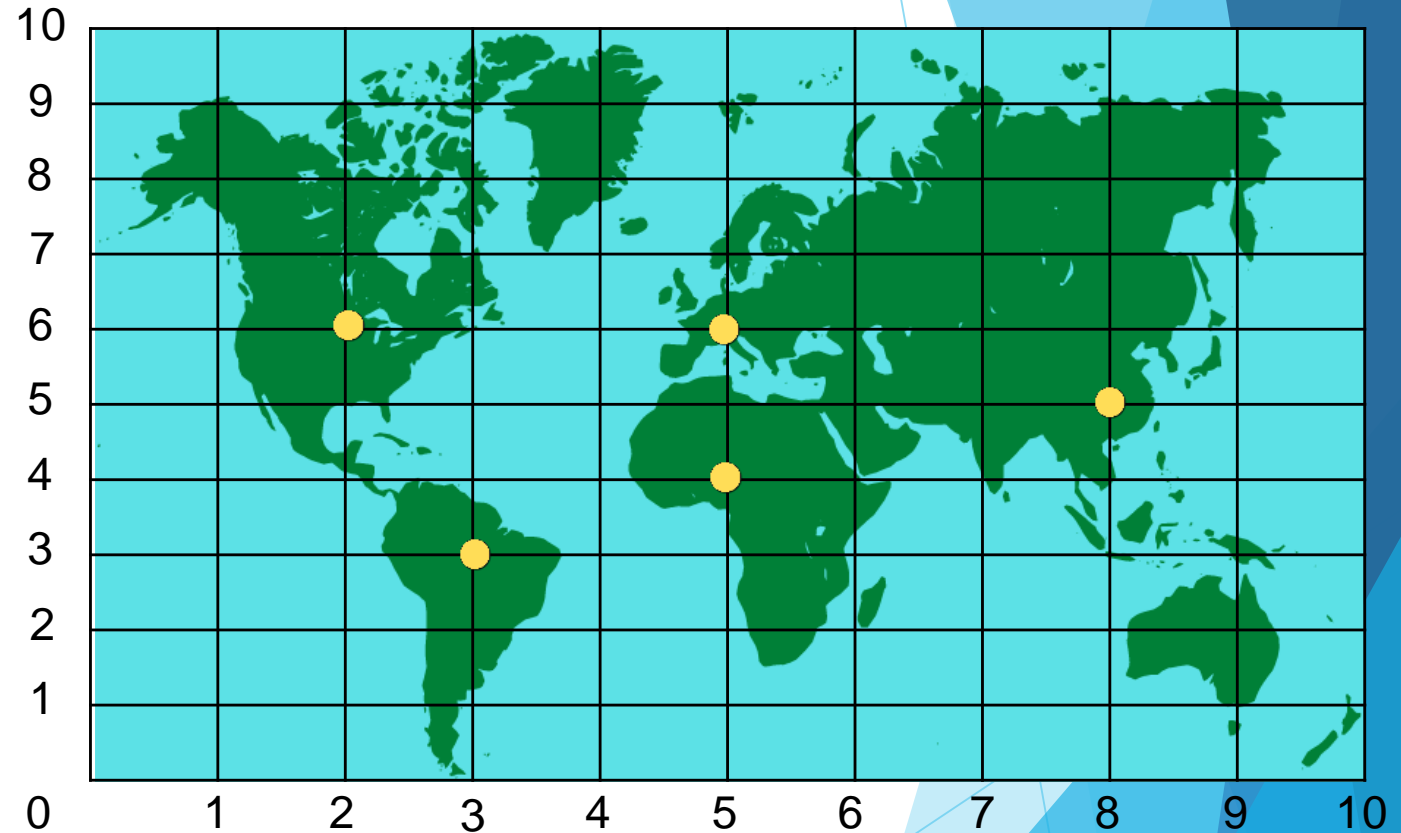
Complete the sentences below.

North America's yellow point is at (\_\_, \_\_).

South America's yellow point is at (\_\_, \_\_).

West Africa's yellow point is at (\_\_, \_\_).

Europe's yellow point is at (\_\_, \_\_).



Asia's yellow point is at (\_\_, \_\_).

## To be able to describe positions in the first quadrant

Activity 2:

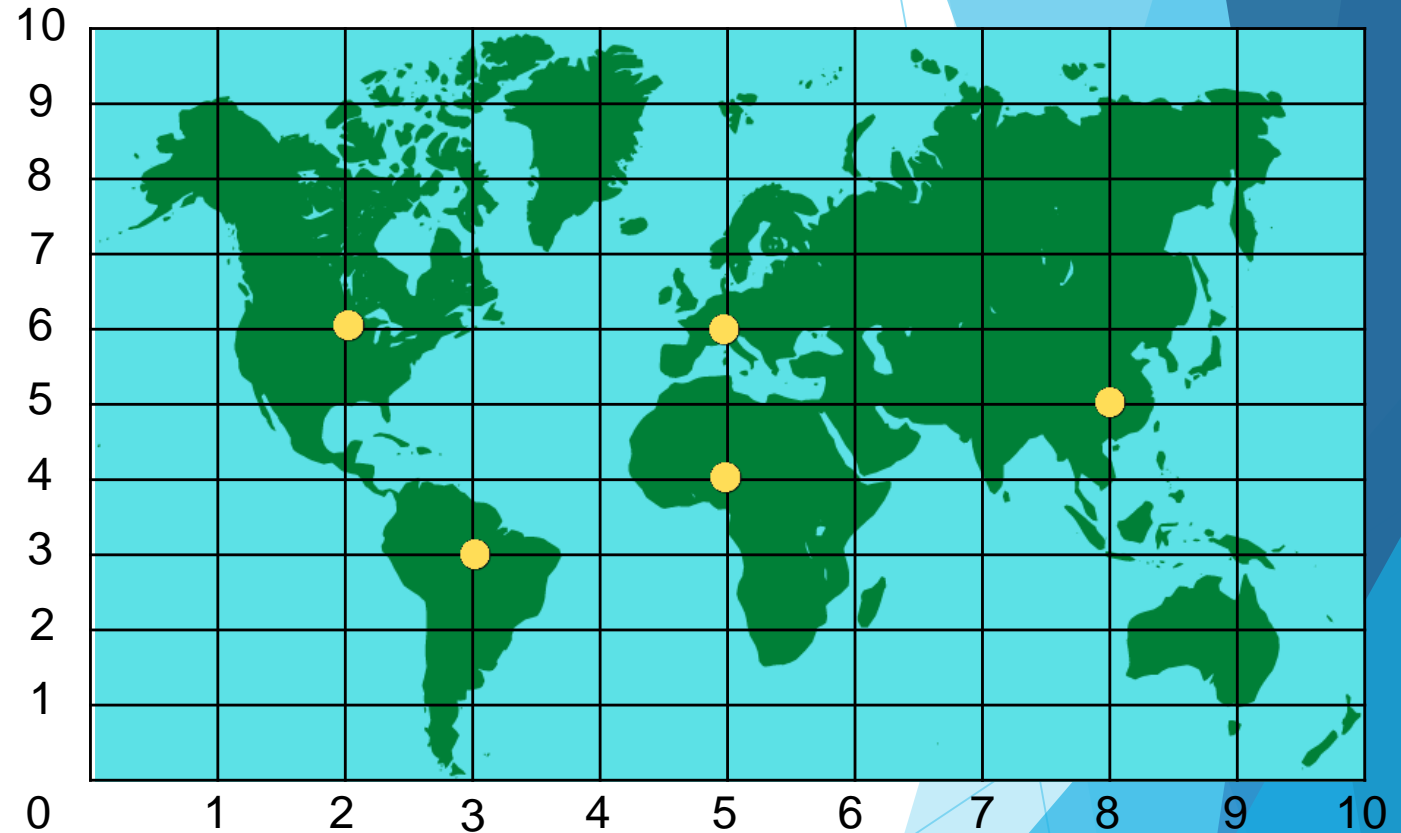
Complete the sentences below.

North America's yellow point is at (2,6).

South America's yellow point is at (3,3).

West Africa's yellow point is at (5,4).

Europe's yellow point is at (5,6).

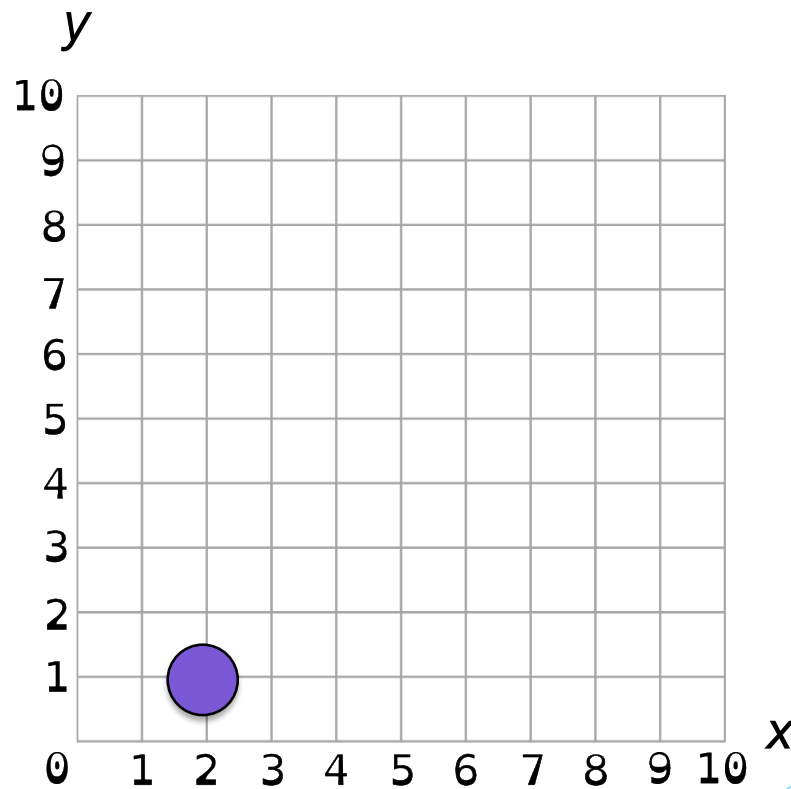


Asia's yellow point is at (8,5).

To be able to describe positions in the first quadrant

Talking Time:

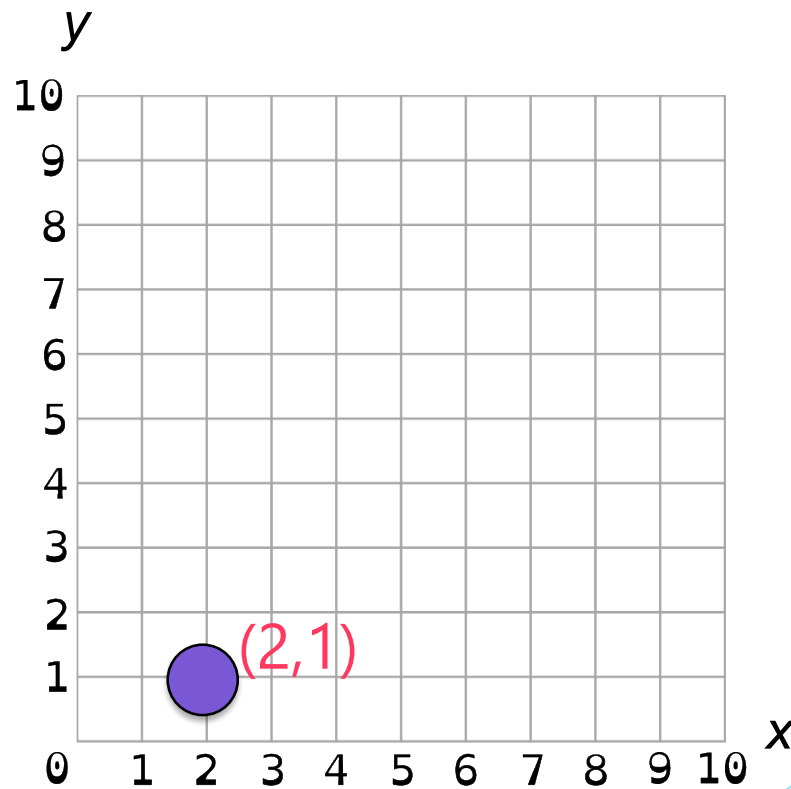
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

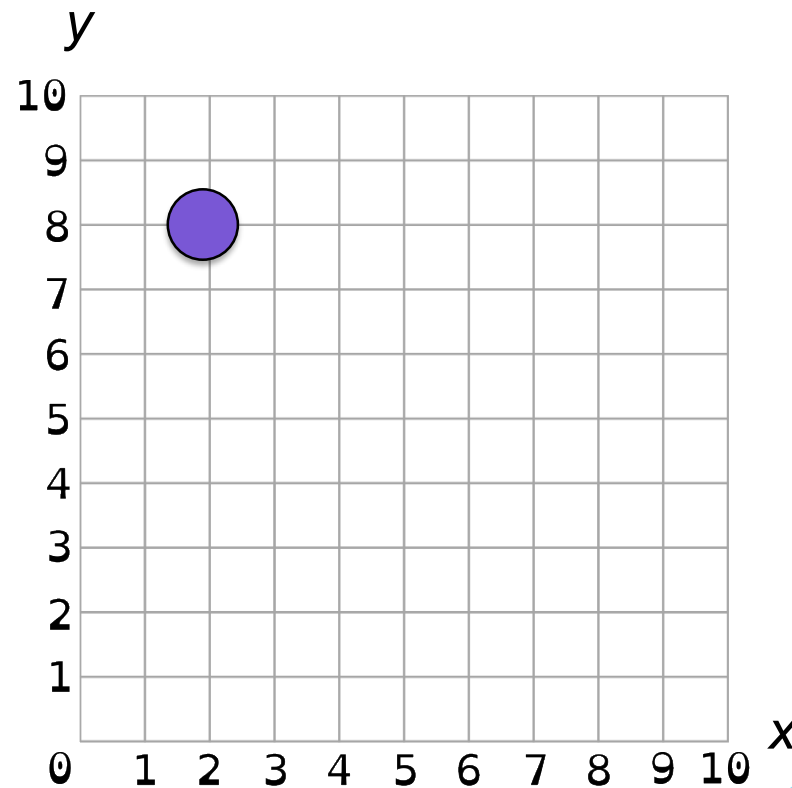
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

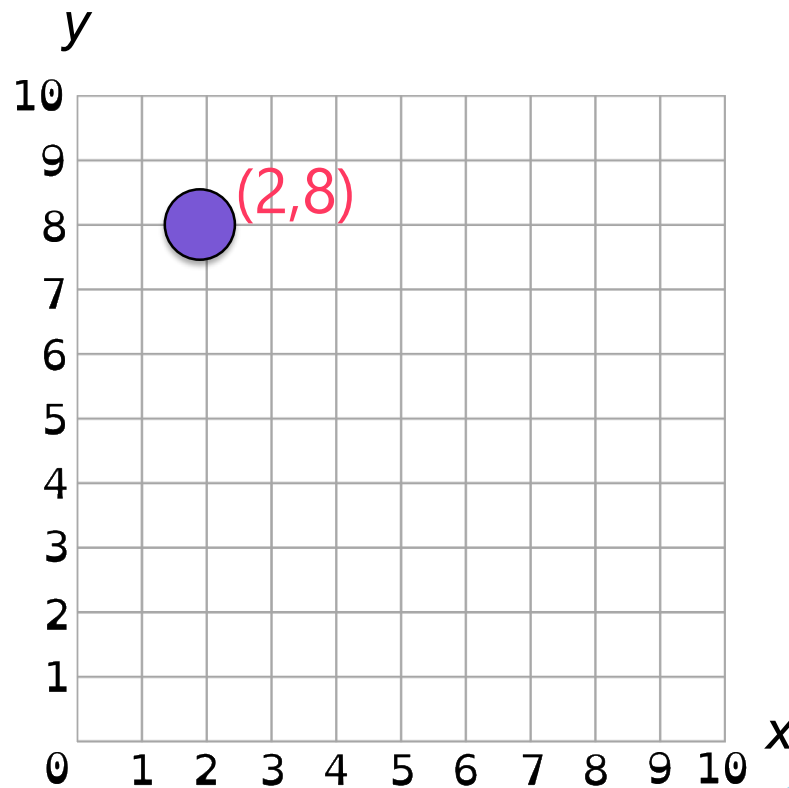
What are the coordinates for the point in the first quadrant below?



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Talking Time:

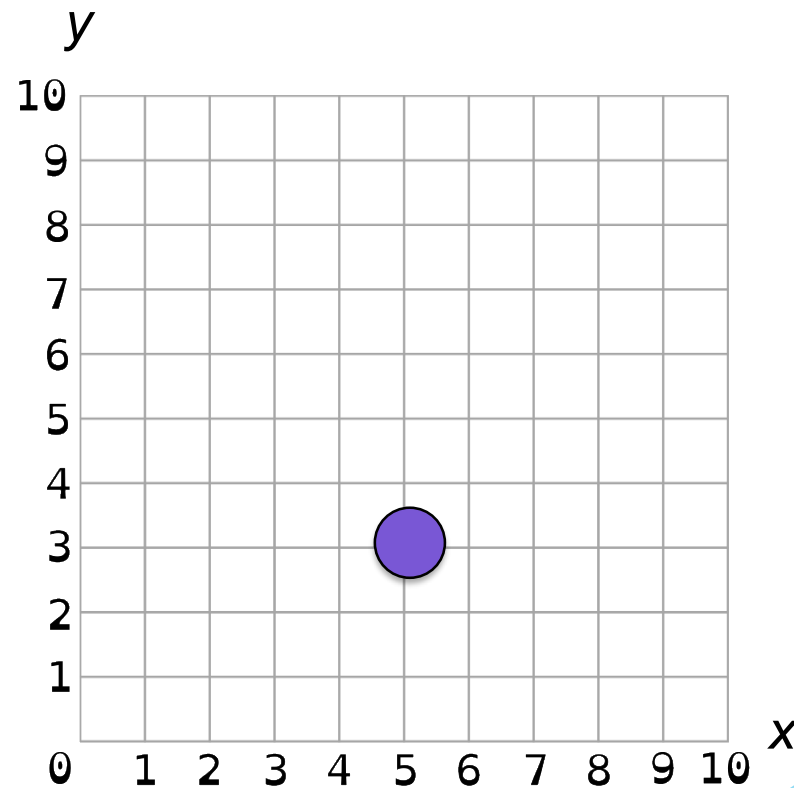
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

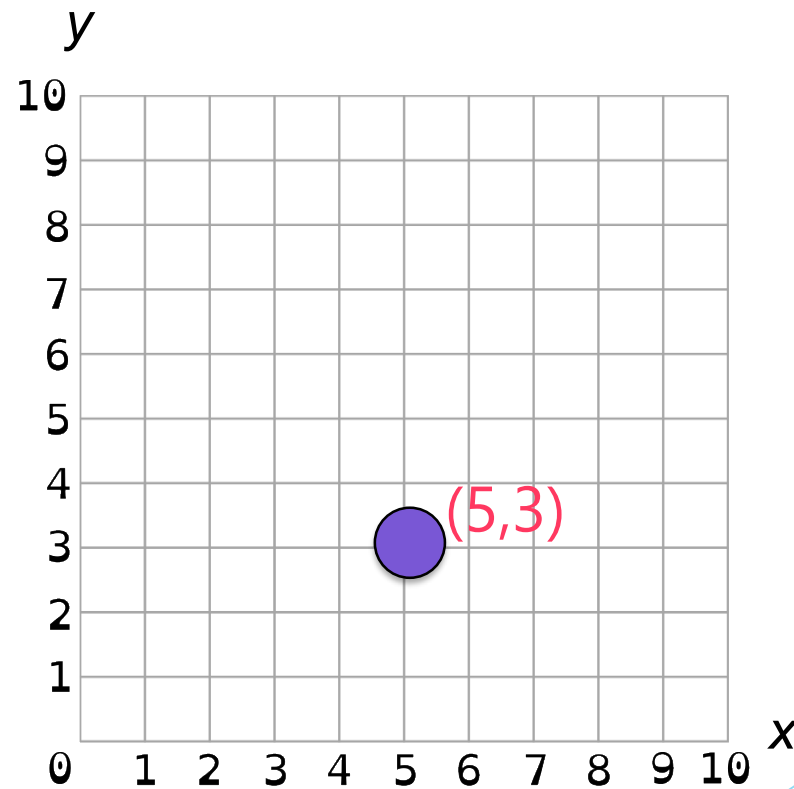
What are the coordinates for the point in the first quadrant below?



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Talking Time:

What are the coordinates for the point in the first quadrant below?

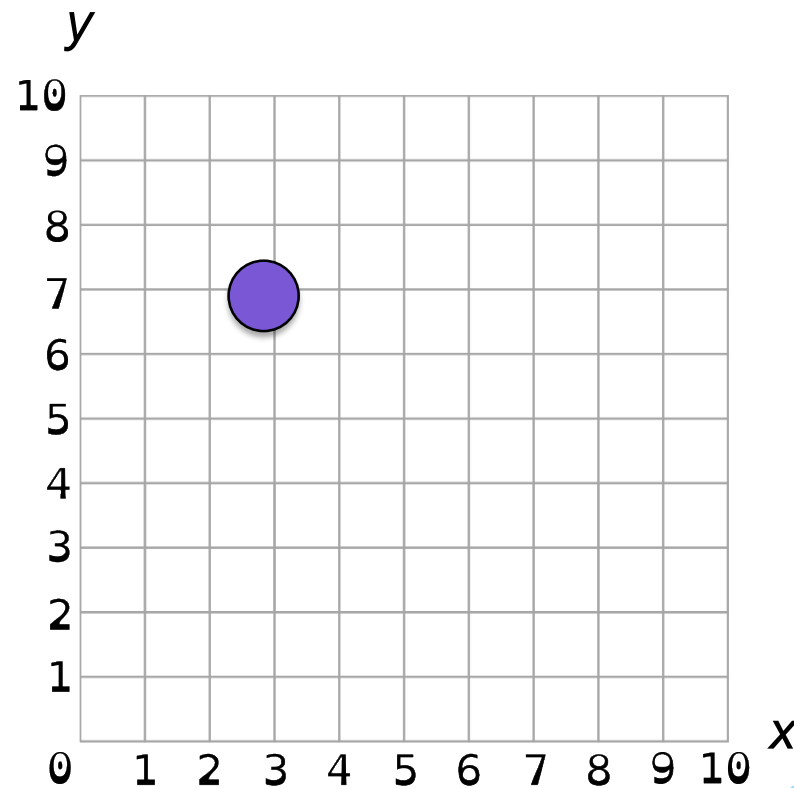




To be able to describe positions in the first quadrant

Talking Time:

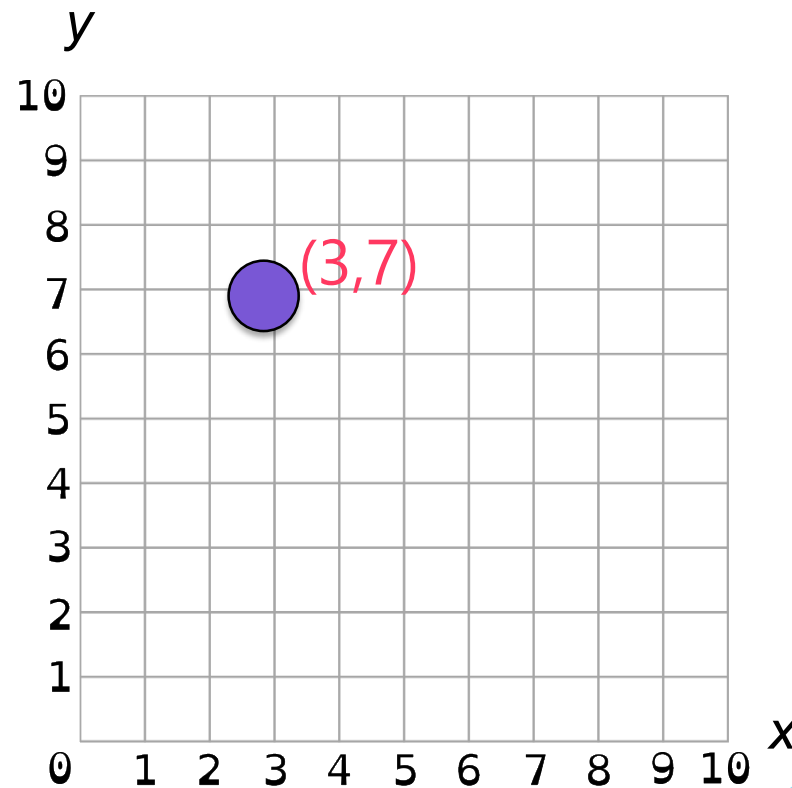
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

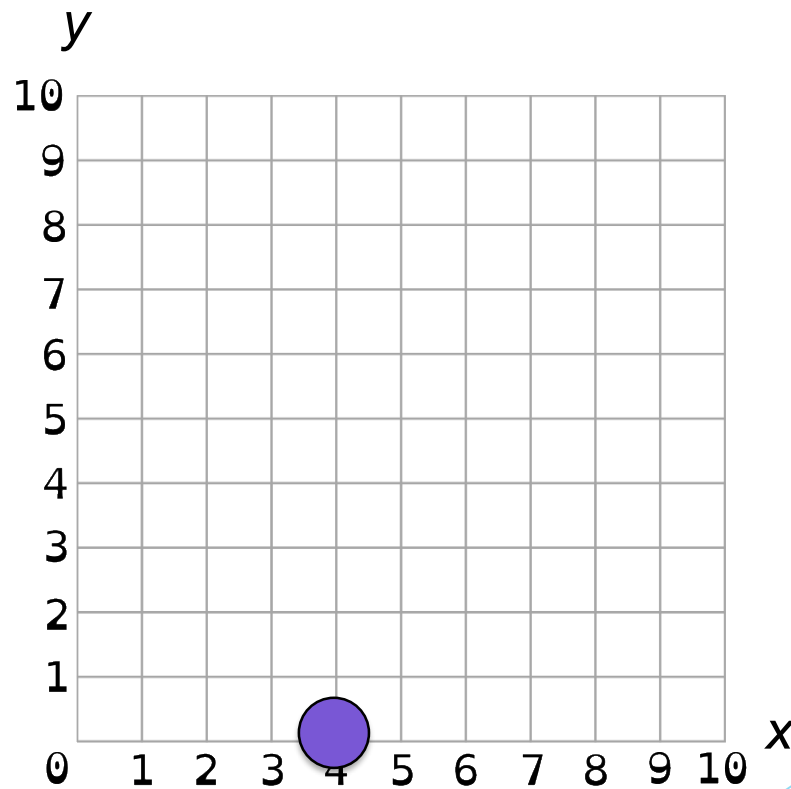
What are the coordinates for the point in the first quadrant below?



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Talking Time:

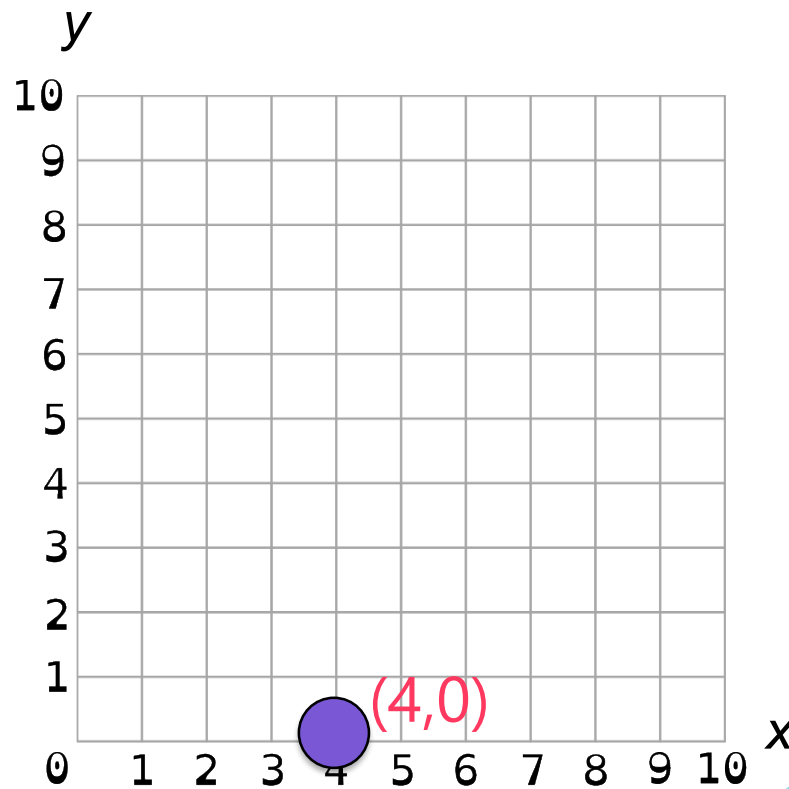
What are the coordinates for the point in the first quadrant below?



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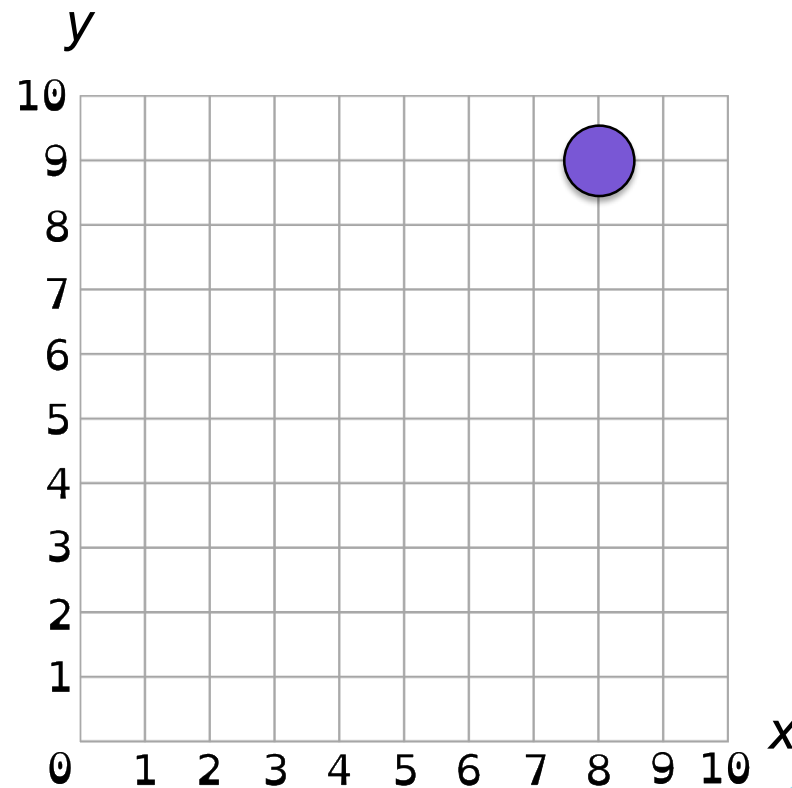
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

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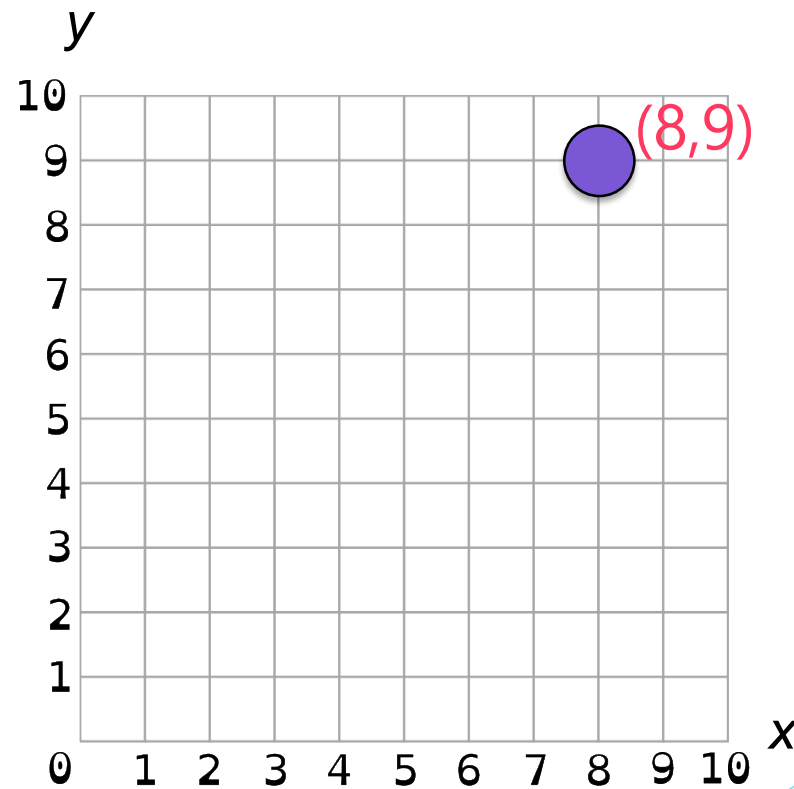
What are the coordinates for the point in the first quadrant below?



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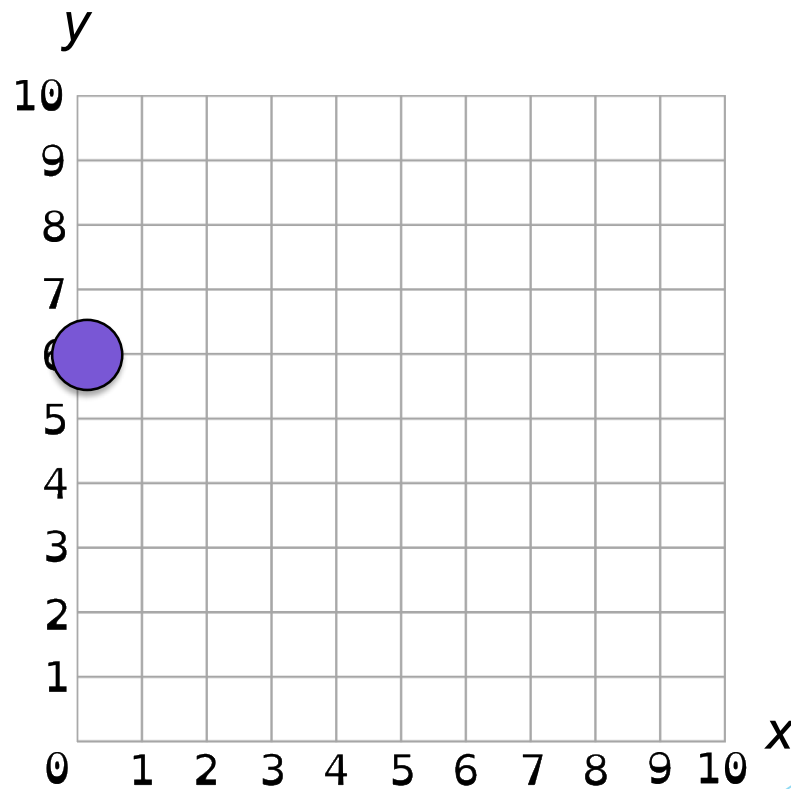
What are the coordinates for the point in the first quadrant below?



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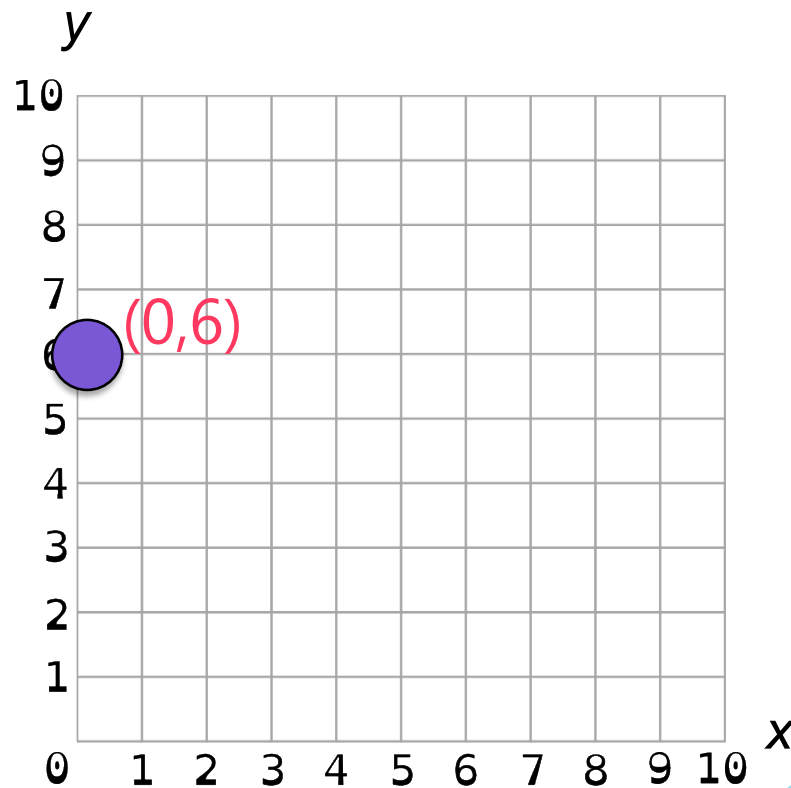
What are the coordinates for the point in the first quadrant below?



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Talking Time:

What are the coordinates for the point in the first quadrant below?

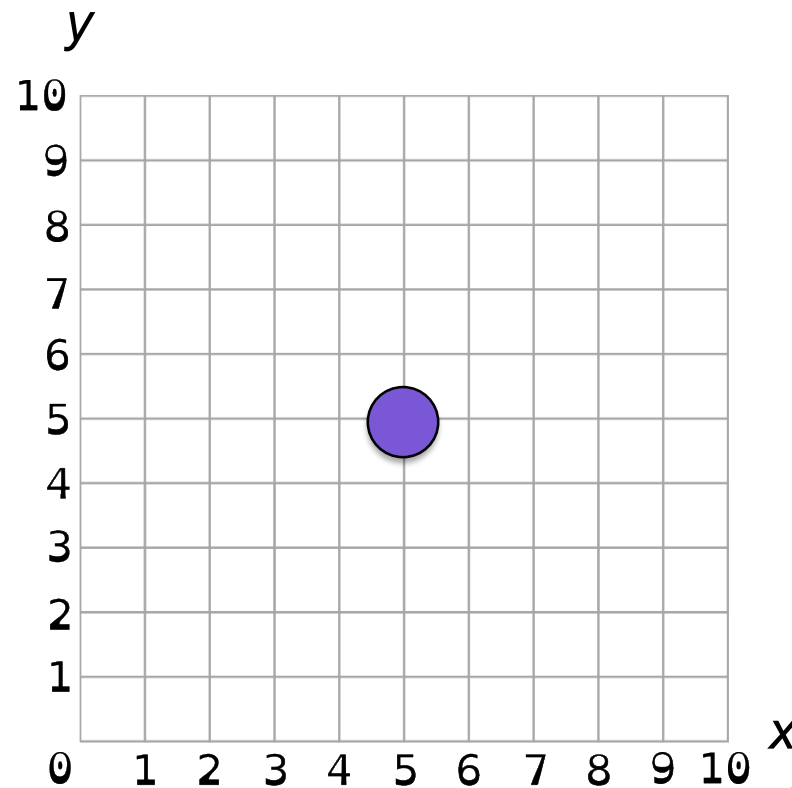




To be able to describe positions in the first quadrant

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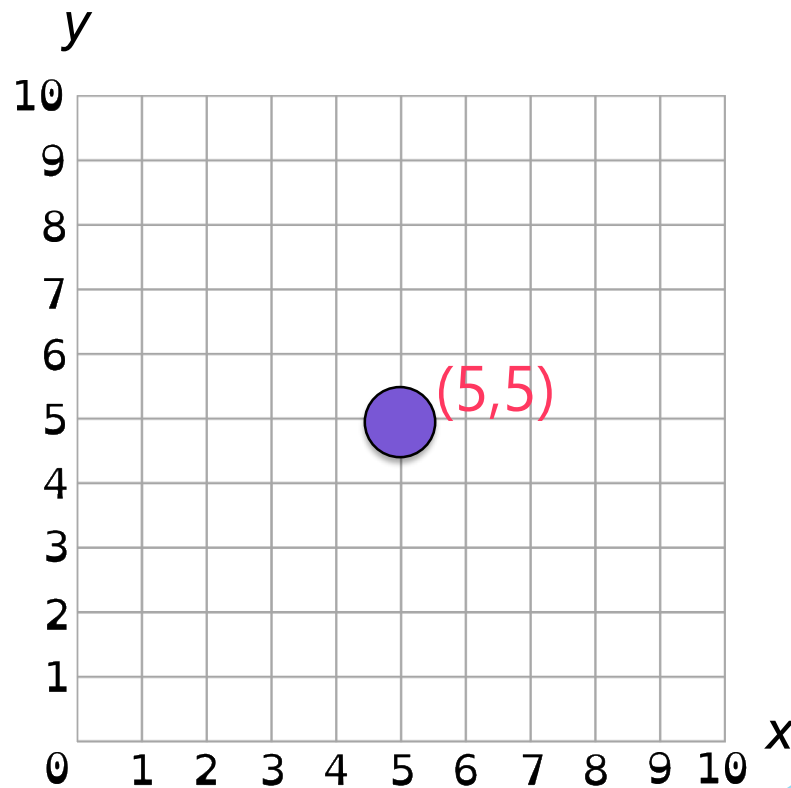
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

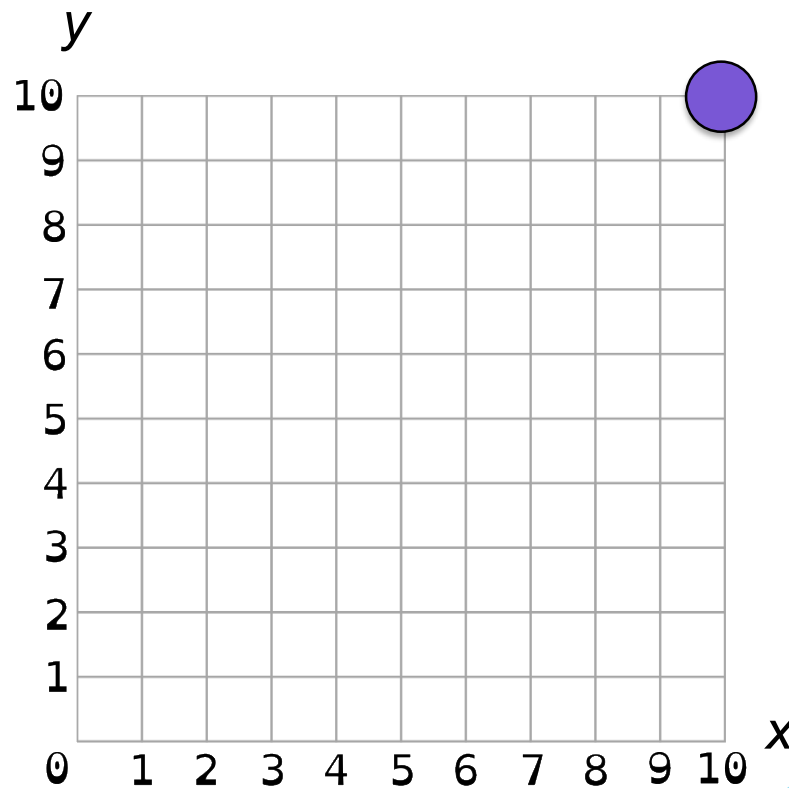
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

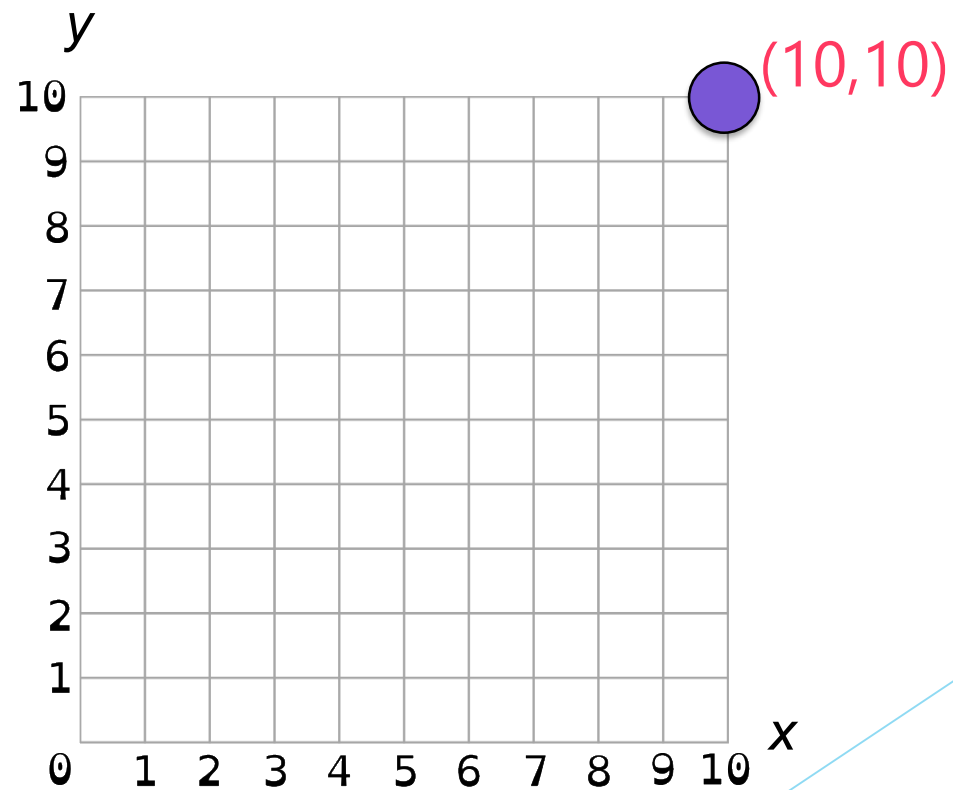
What are the coordinates for the point in the first quadrant below?



To be able to describe positions in the first quadrant

Talking Time:

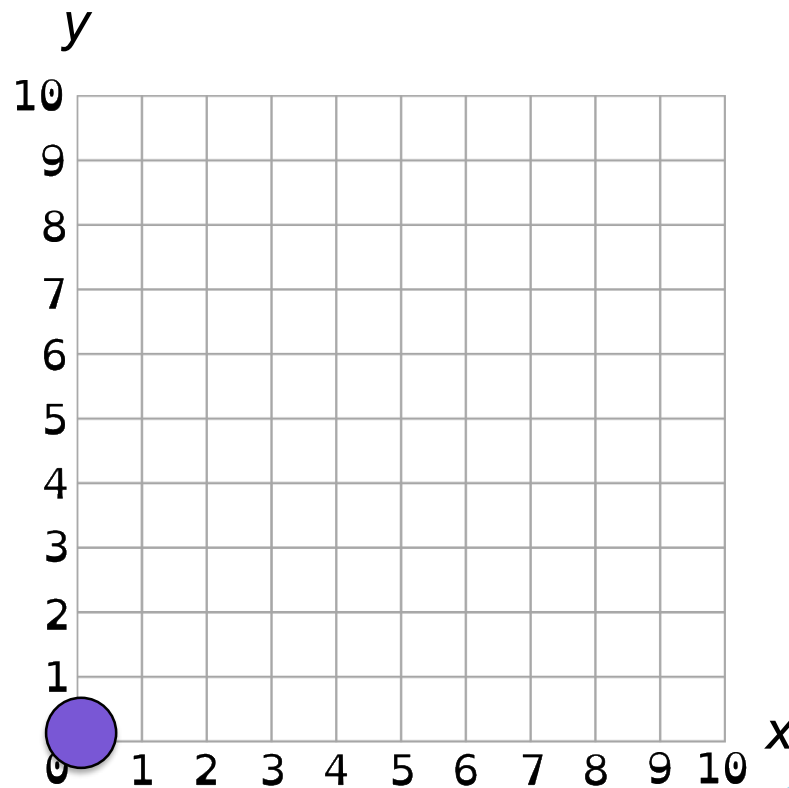
What are the coordinates for the point in the first quadrant below?



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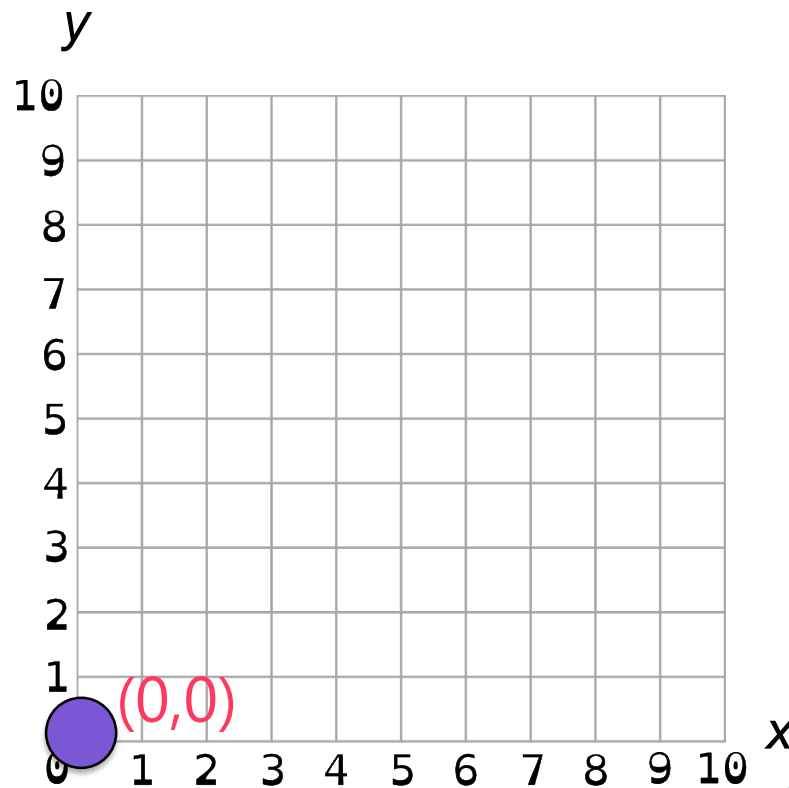
What are the coordinates for the point in the first quadrant below?



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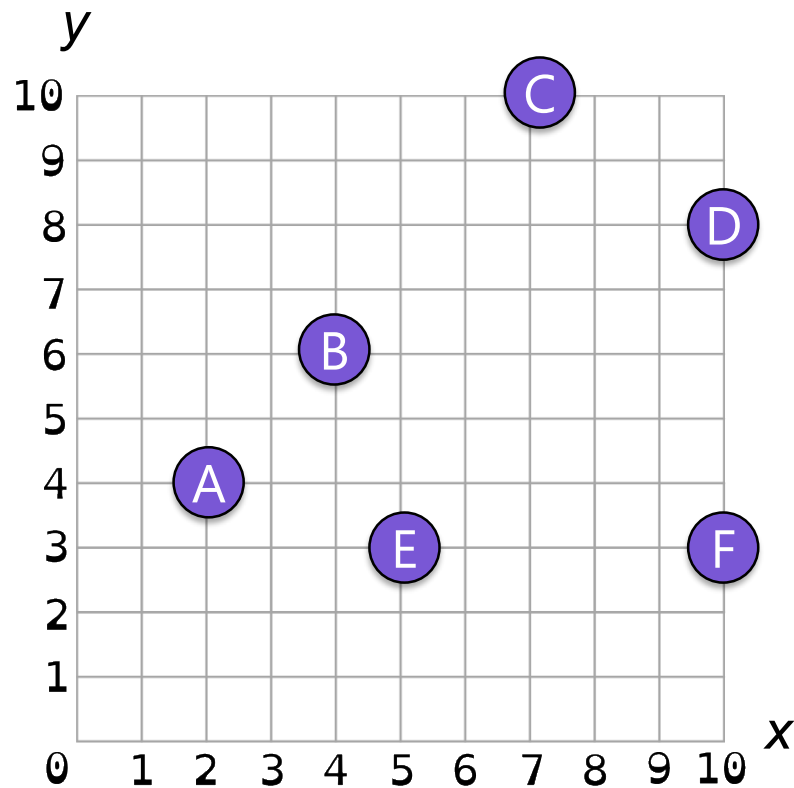
What are the coordinates for the point in the first quadrant below?



## To be able to describe positions in the first quadrant

### Activity 3:

Write the coordinates for the points plotted below.

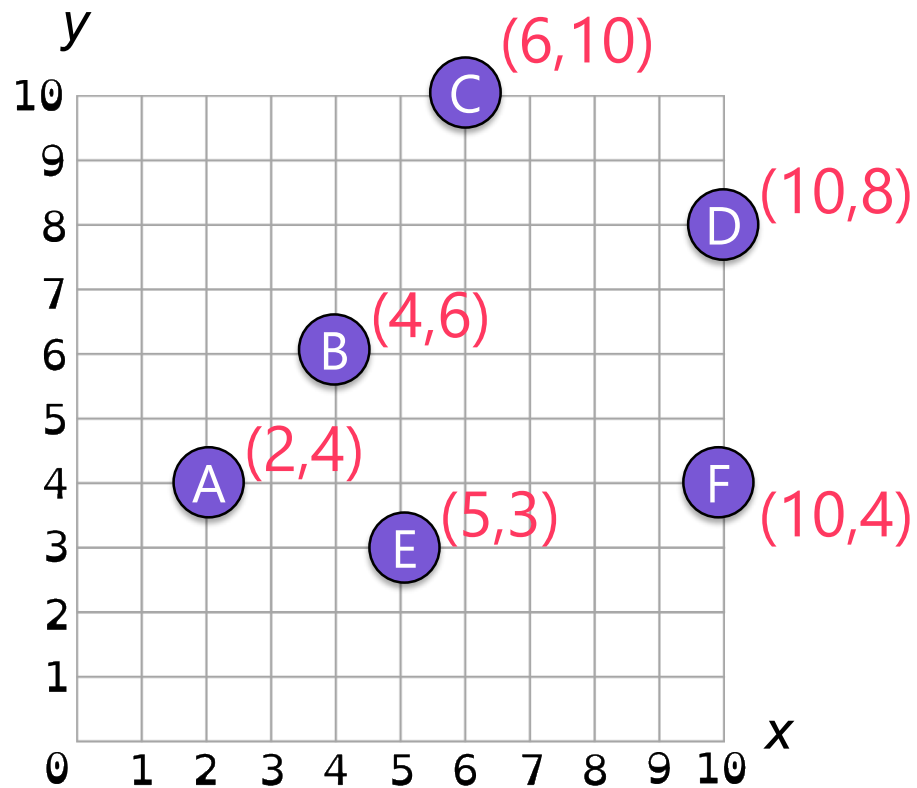


Which plotted point doesn't belong?  
Explain your answer.

## To be able to describe positions in the first quadrant

### Activity 3:

Write the coordinates for the points plotted below.



Point E doesn't belong as it is the only point that has  $x$  and  $y$  coordinates that are odd numbers.

All the other plotted points have even numbers for both their  $x$  and  $y$  values.



## To be able to describe positions in the first quadrant

### Activity 4:

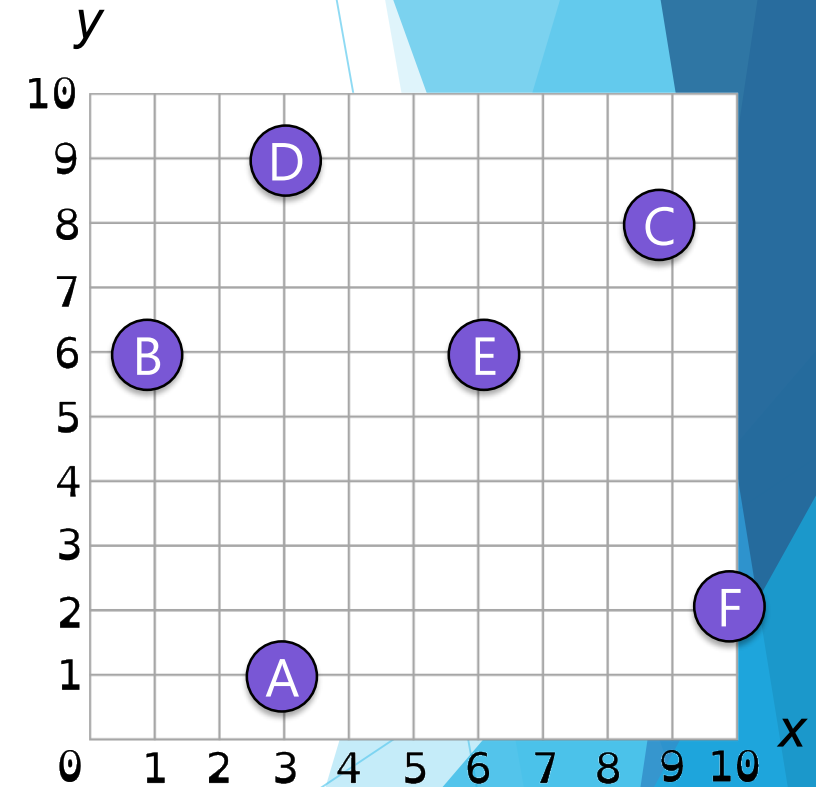
Ruth and Jamal have both been plotting points on the grid shown. Guess their points based on the clues given.

Jamal says, “Both of our points have the same  $x$  coordinate.”

Ruth says, “Jamal’s  $y$  coordinate is greater than mine.”

What are their plot points?

Explain your answer.



## To be able to describe positions in the first quadrant

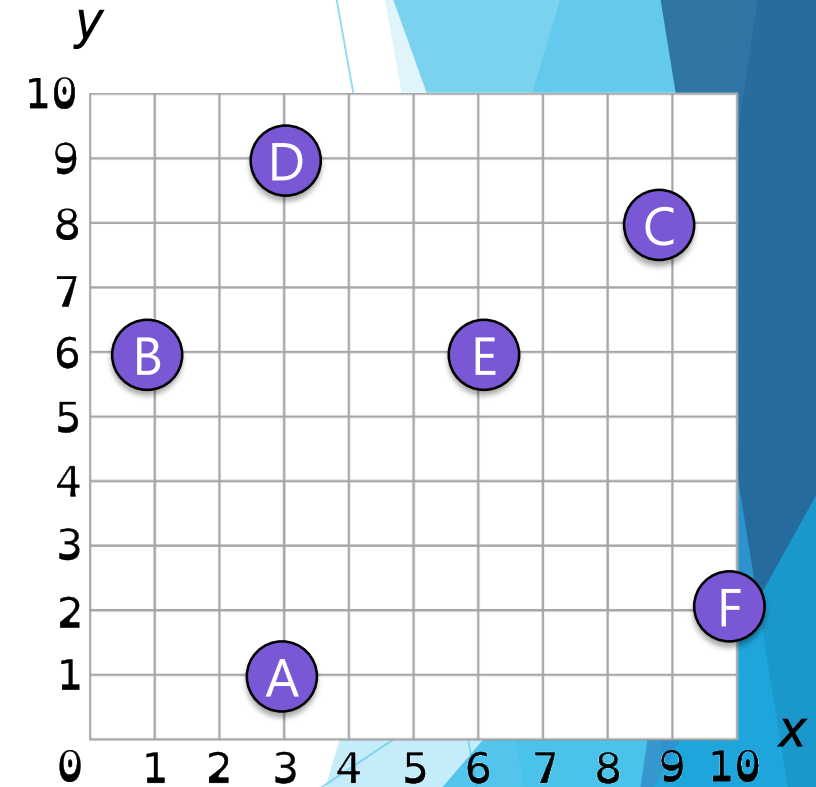
### Activity 4:

Ruth and Jamal have both been plotting points on the grid shown. Guess their points based on the clues given.

Jamal says, “Both of our points have the same  $x$  coordinate.”

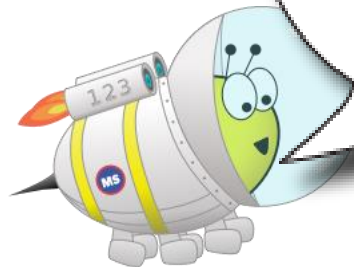
Ruth says, “Jamal’s  $y$  coordinate is greater than mine.”

Jamal’s point is D, as it has the coordinates  $(3,9)$  and Ruth’s point is A, as it has the coordinates  $(3,1)$ . The  $x$  values are the same, but Jamal’s  $y$  value is greater.



To be able to describe positions in the first quadrant

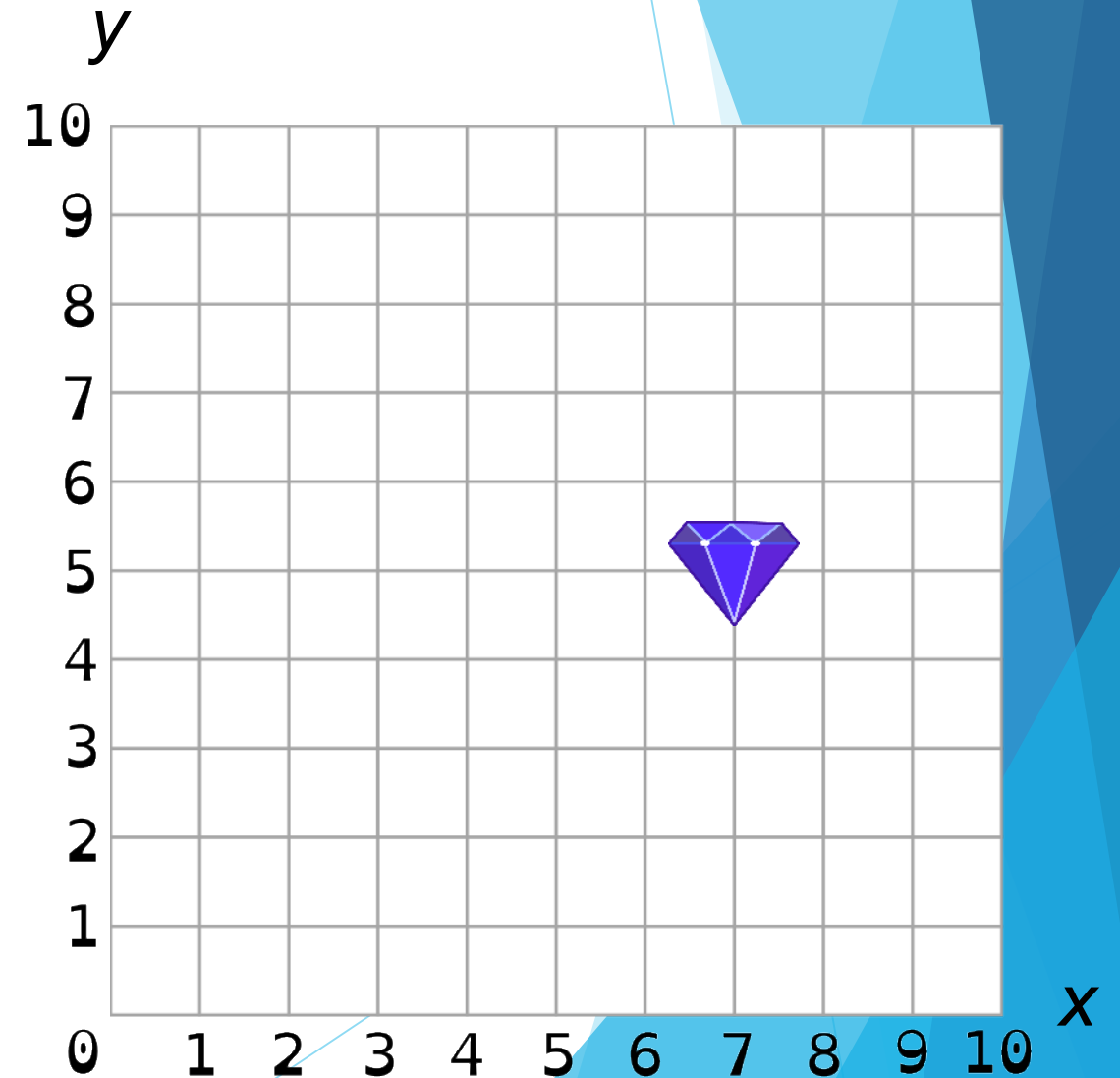
Evaluation:



The sapphire has the  
coordinates (5,7).

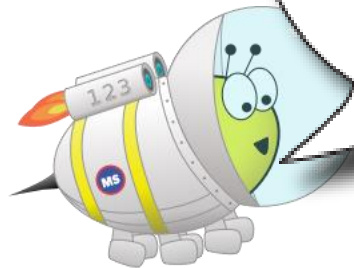
Do you agree?

Explain your answer.



To be able to describe positions in the first quadrant

Evaluation:



The sapphire has the coordinates (5,7).

No, I do not agree. The coordinates are (7,5). The order has been inverted.

