

POSITION AND DIRECTION- DAY 4 & 5

To be able to describe the movement of shapes
and coordinates in the first quadrant

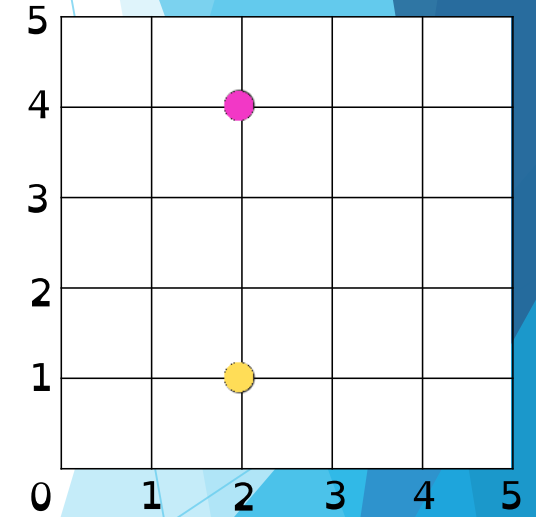
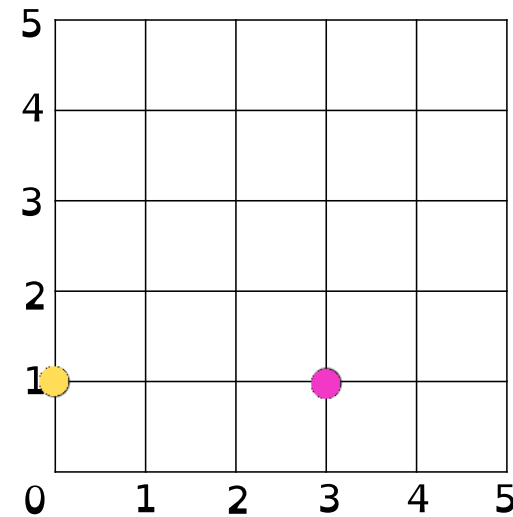
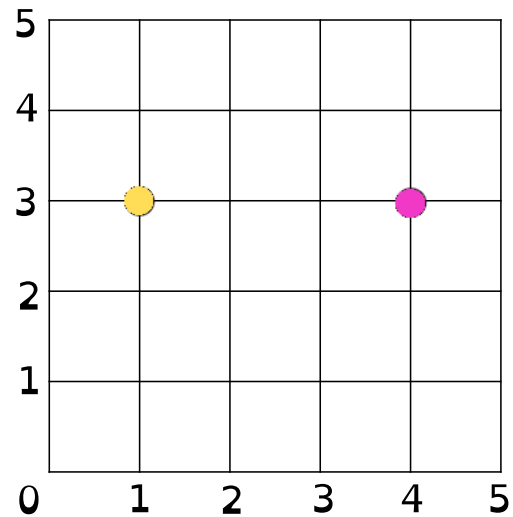
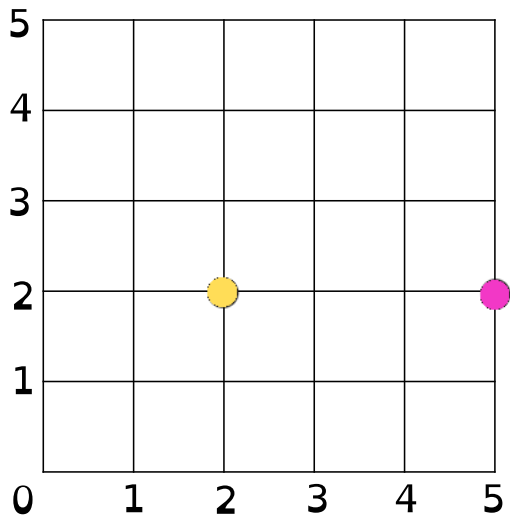
SUCCESS CRITERIA

- ✓ I can describe the movement of shapes and coordinates when both the x and y coordinates have a positive value
- ✓ I can explain my reasoning when describing the movement of shapes and coordinates when both the x and y coordinates have a positive value

To be able to describe the movement of shapes and coordinates in the first quadrant

Starter:

Look at the quadrants and their plotted (yellow) and translated (pink) points.



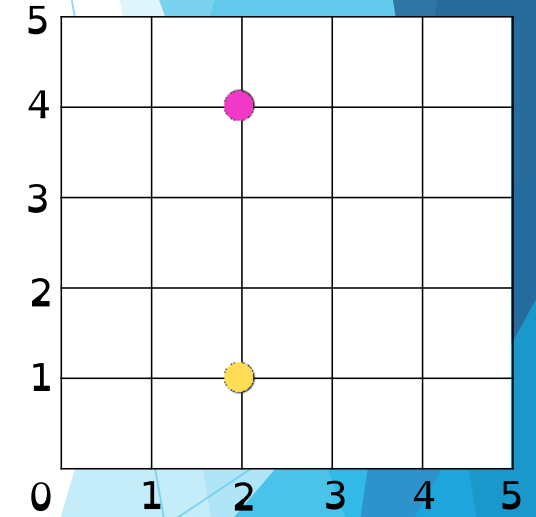
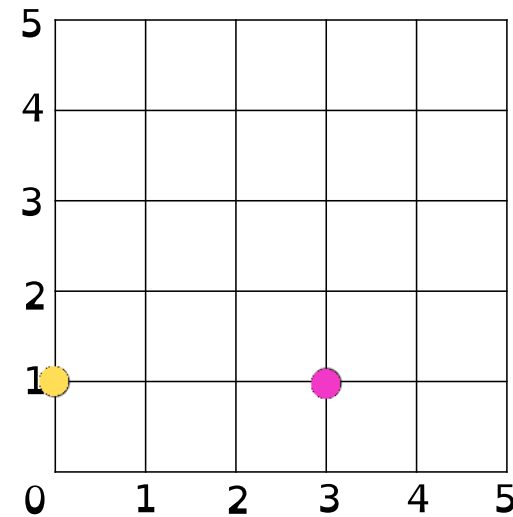
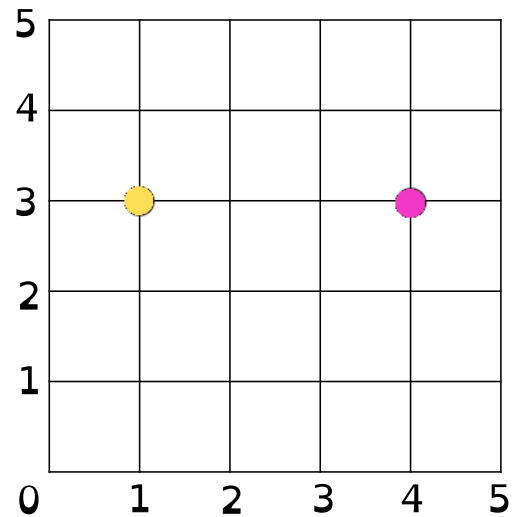
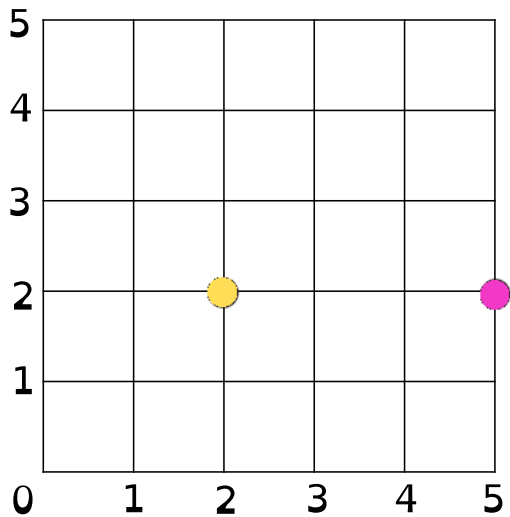
Which one doesn't belong?

Explain your answer.

To be able to describe the movement of shapes and coordinates in the first quadrant

Starter:

Look at the quadrants and their plotted (yellow) and translated (pink) points.



The grid on the right doesn't belong as the yellow point has been translated up three spaces, whereas the other grids show translation to the right three spaces.

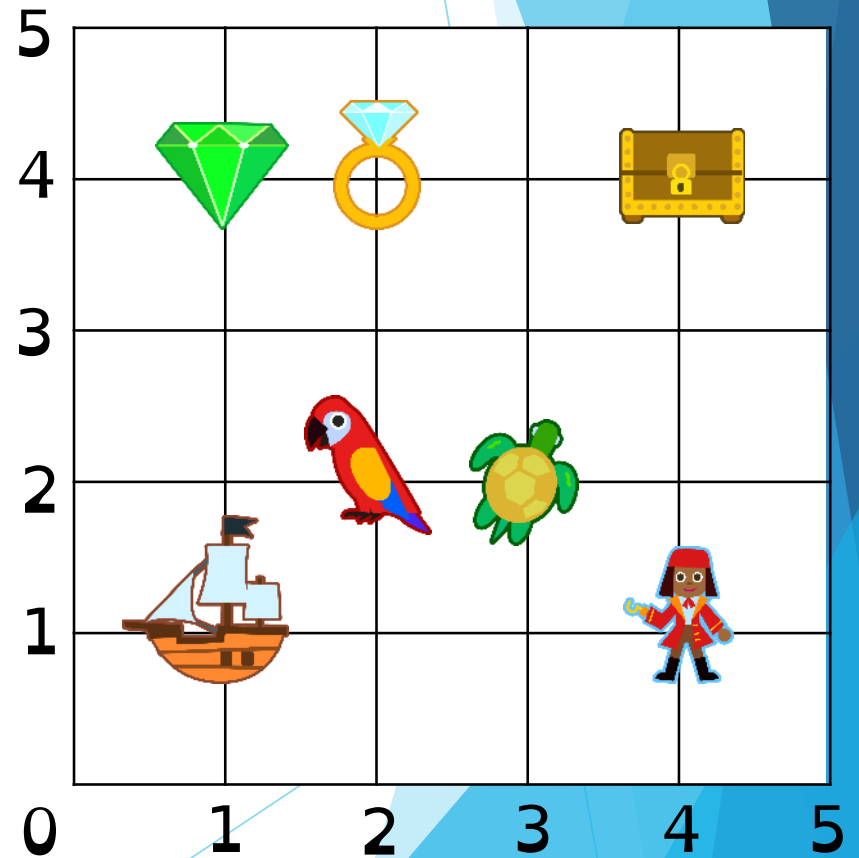
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (4,1). To get to the ship, she needs to get to (1,1).

Complete the sentence below.

To get to the ship, the pirate needs to move



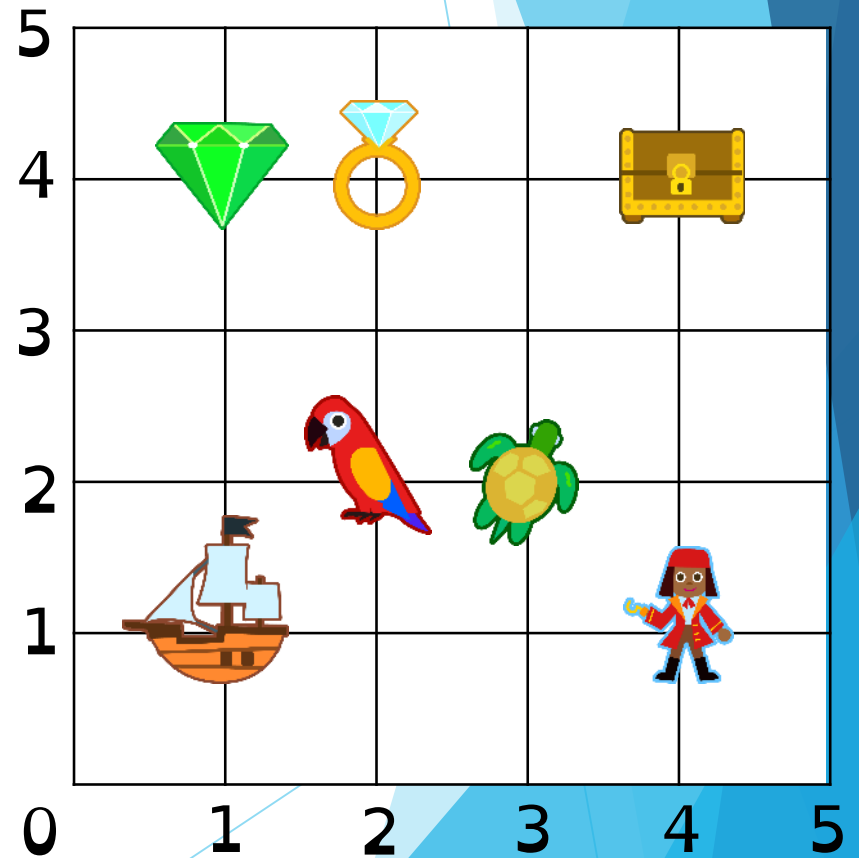
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (4,1). To get to the ship, she needs to get to (1,1).

Complete the sentence below.

To get to the ship, the pirate needs to move left three spaces.



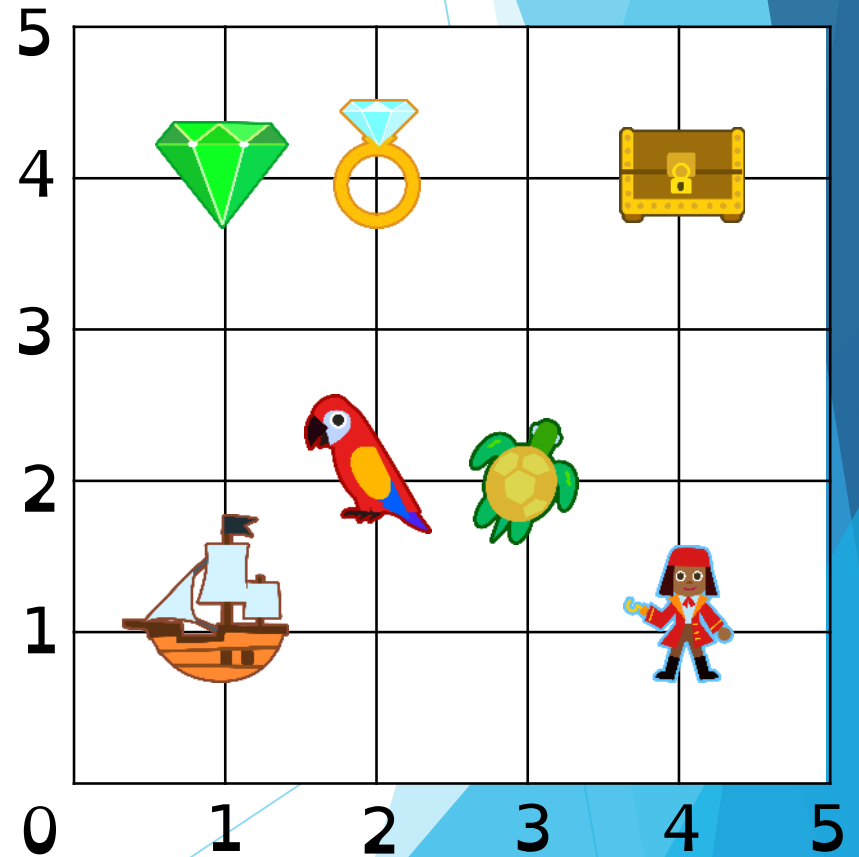
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (4,1). To get to the chest, she needs to get to (4,4).

Complete the sentence below.

To get to the chest, the pirate needs to move



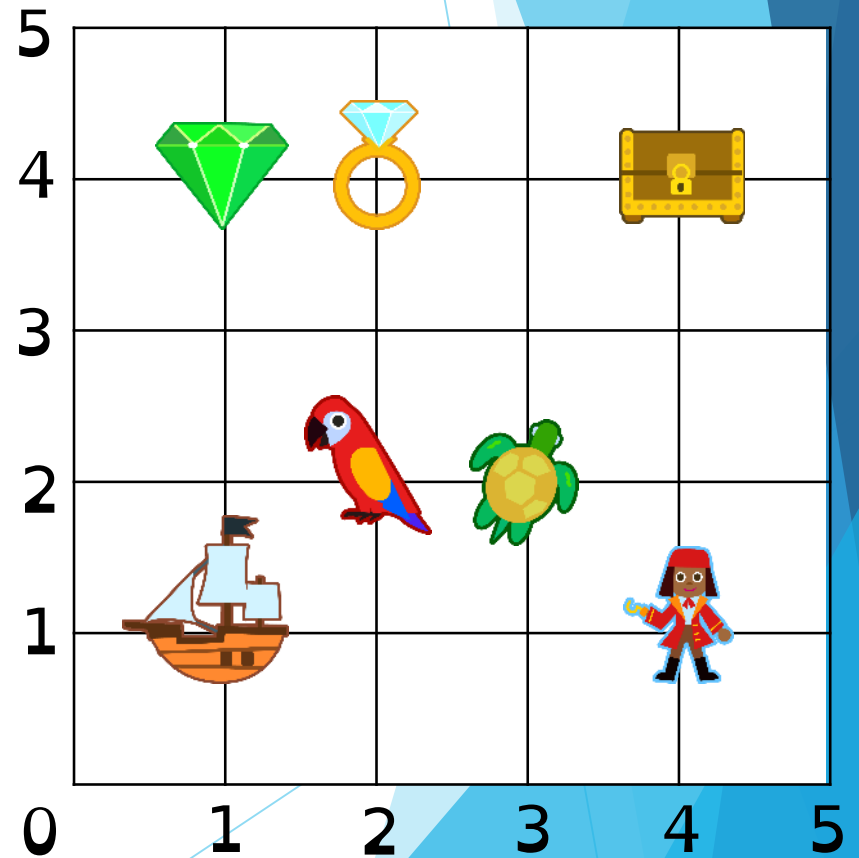
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (4,1). To get to the chest, she needs to get to (4,4).

Complete the sentence below.

To get to the chest, the pirate needs to move up three spaces.



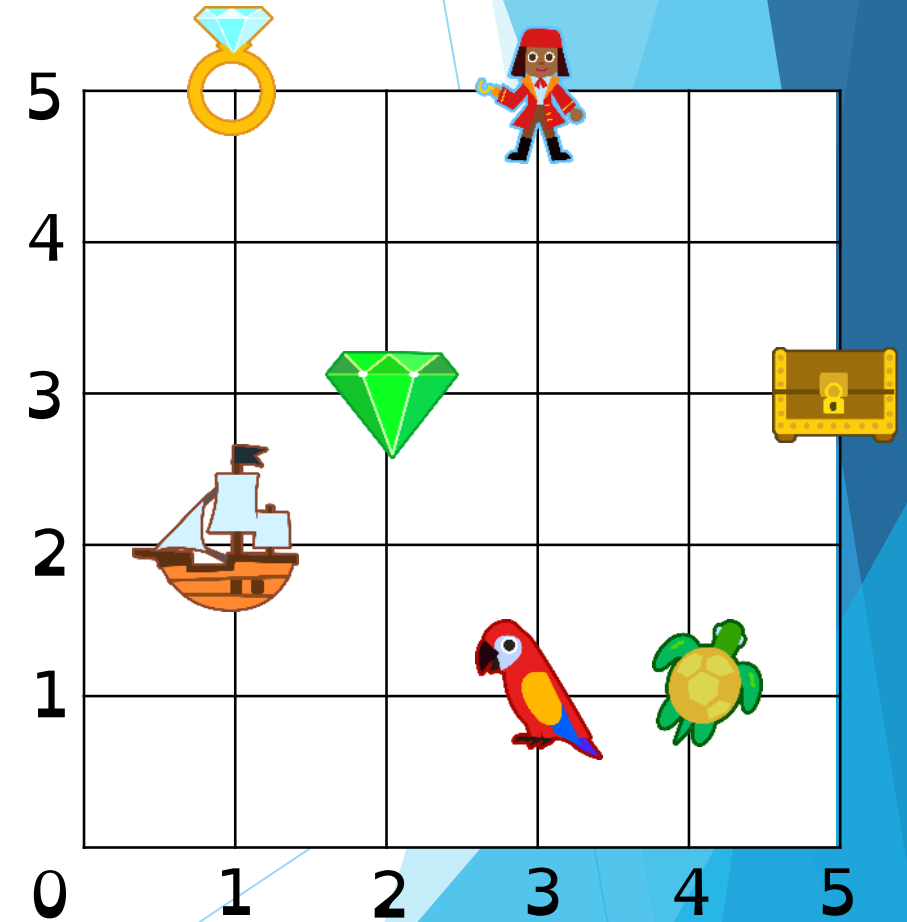
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the ring, she needs to get to (1,5).

Complete the sentence below.

To get to the ring, the pirate needs to move



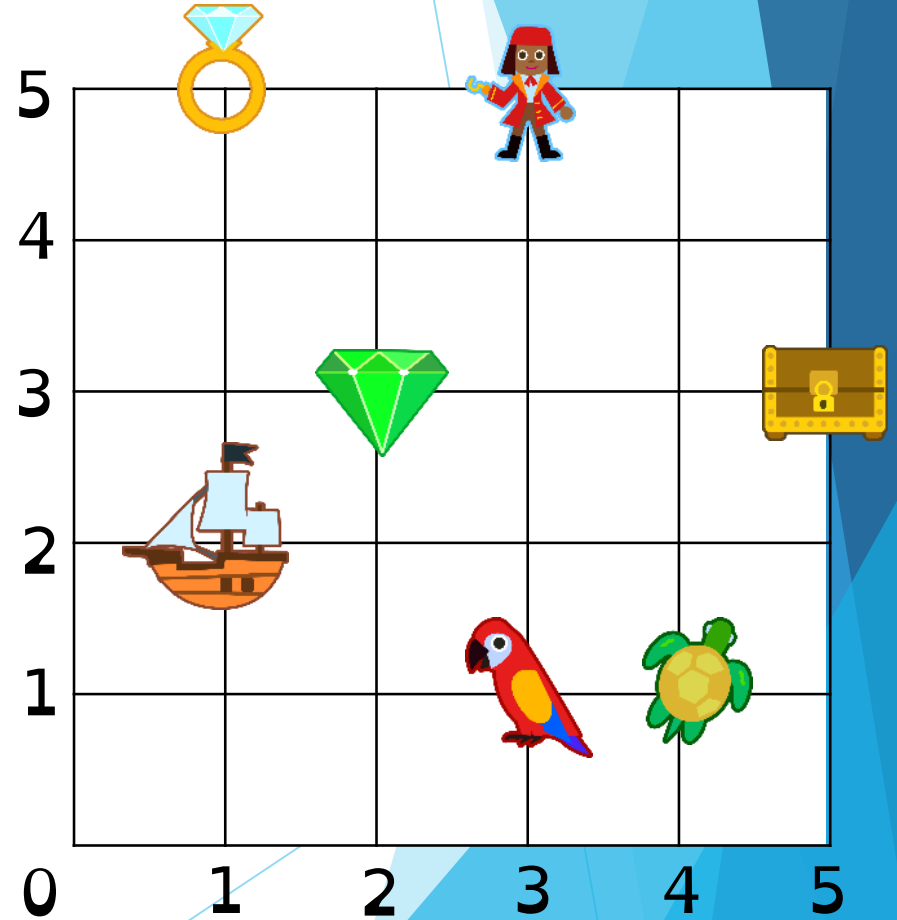
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the ring, she needs to get to (1,5).

Complete the sentence below.

To get to the ring, the pirate needs to move left two spaces.



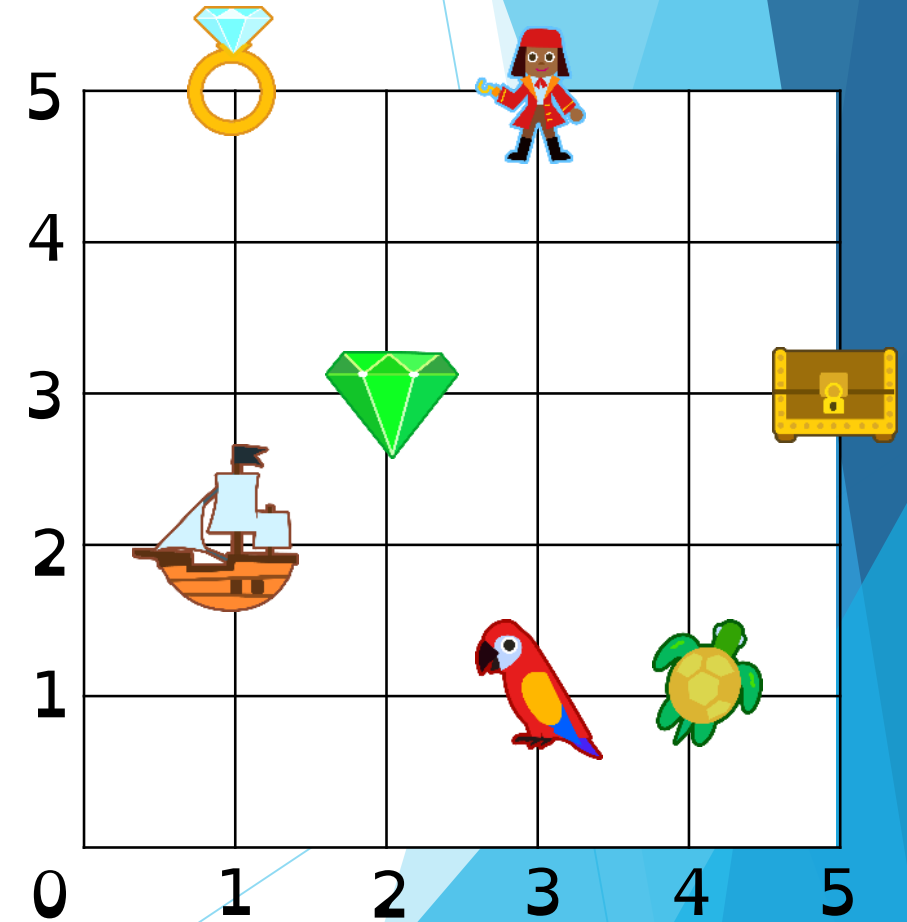
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the parrot, she needs to get to (3,1).

Complete the sentence below.

To get to the parrot, the pirate needs to move



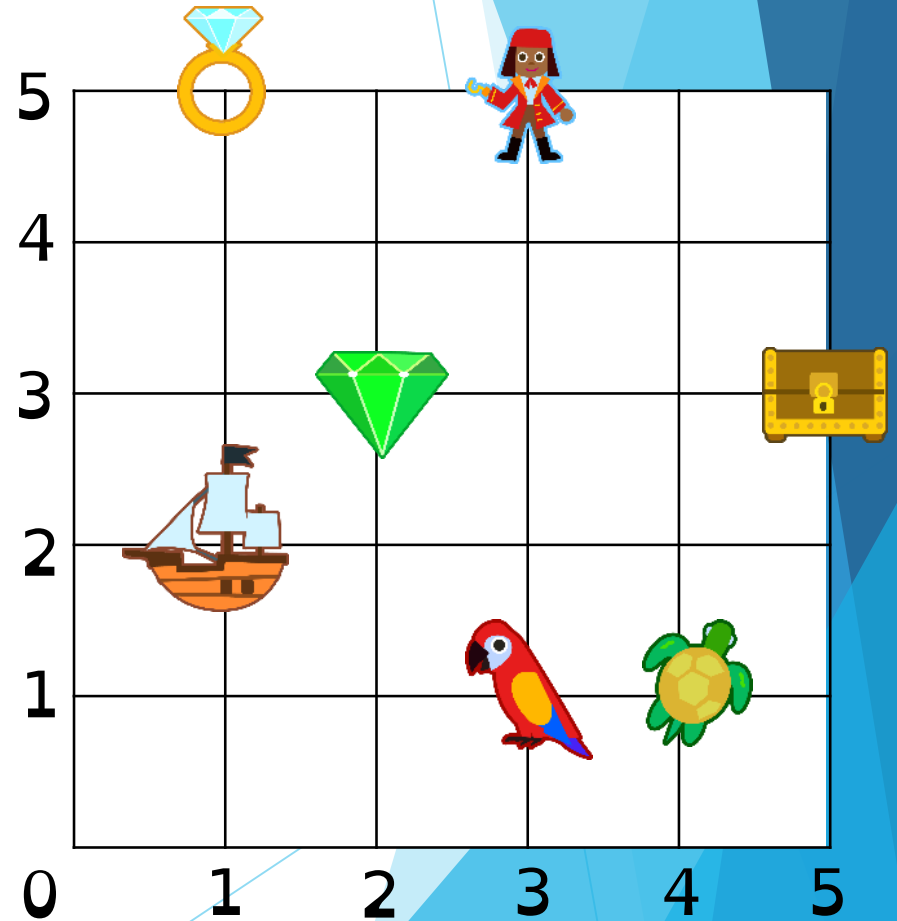
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the parrot, she needs to get to (1,5).

Complete the sentence below.

To get to the parrot, the pirate needs to move **down four spaces**.



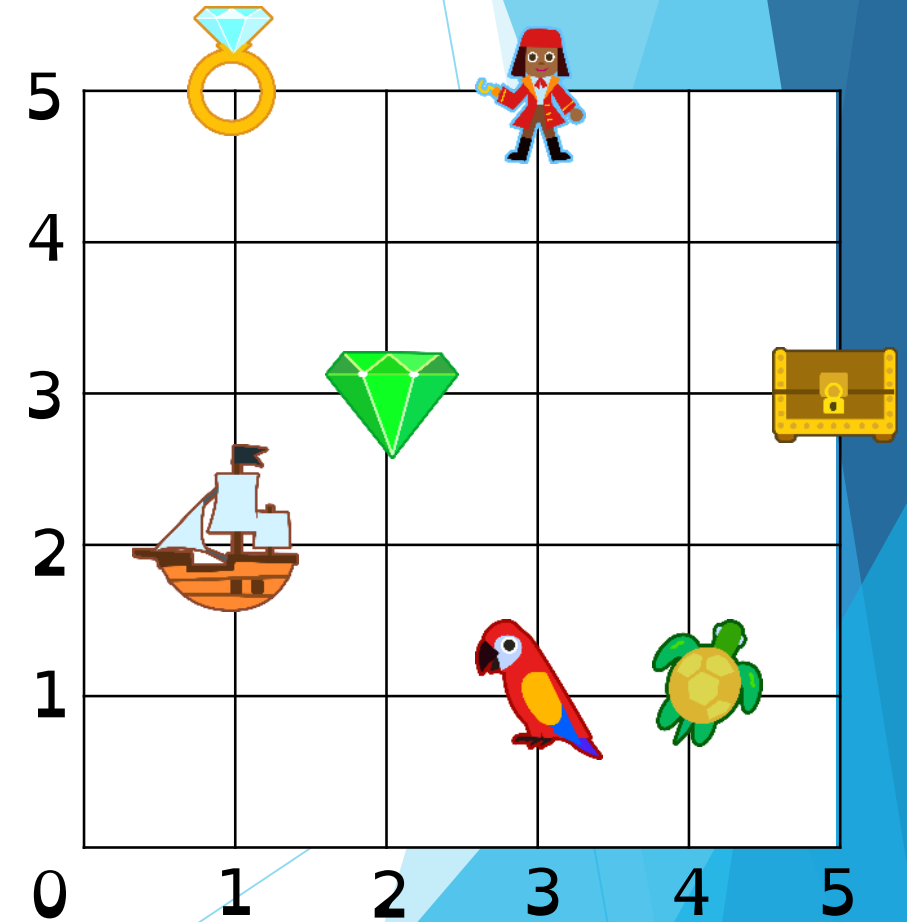
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the ship, she needs to get to (1,2).

Complete the sentence below.

To get to the ship, the pirate needs to move



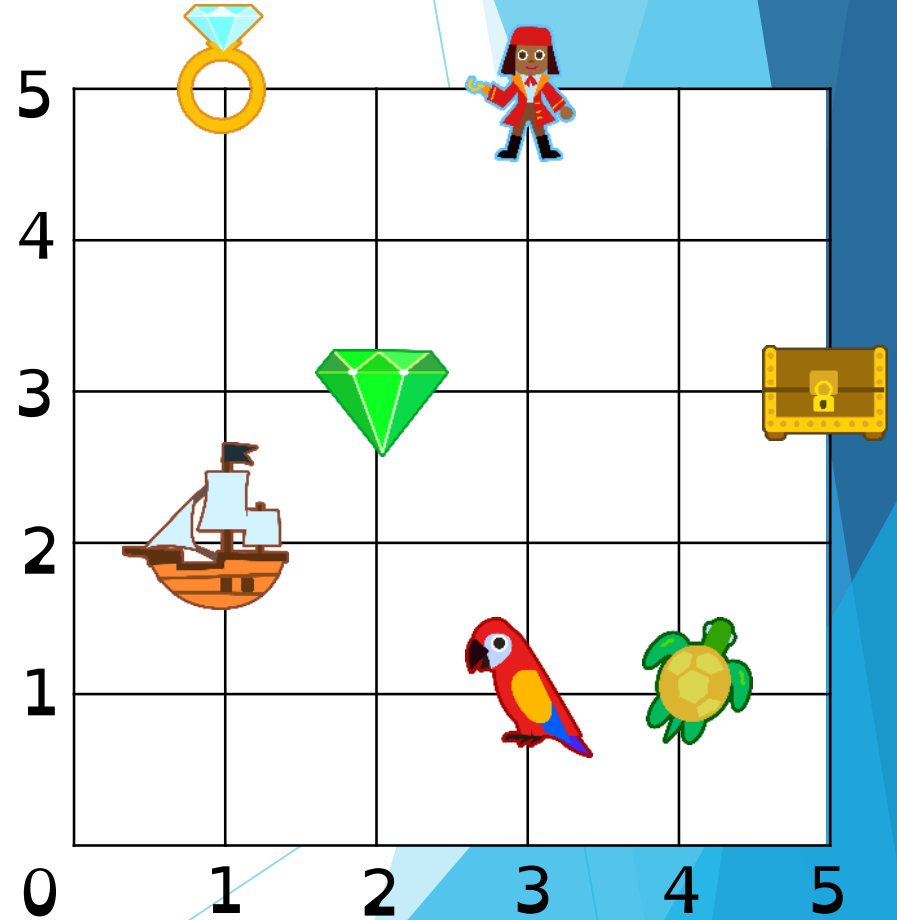
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the ship, she needs to get to (1,2).

Complete the sentence below.

To get to the ship, the pirate needs to move **left two spaces and down three spaces**.



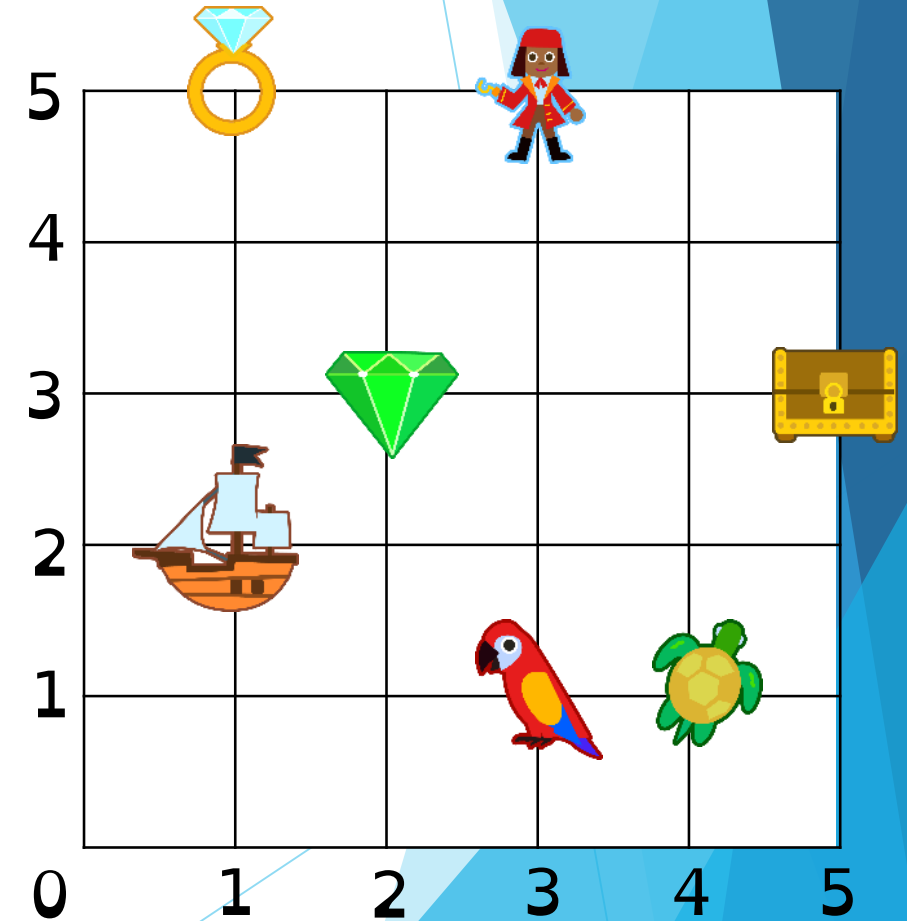
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the turtle, she needs to get to (4,1).

Complete the sentence below.

To get to the turtle, the pirate needs to move



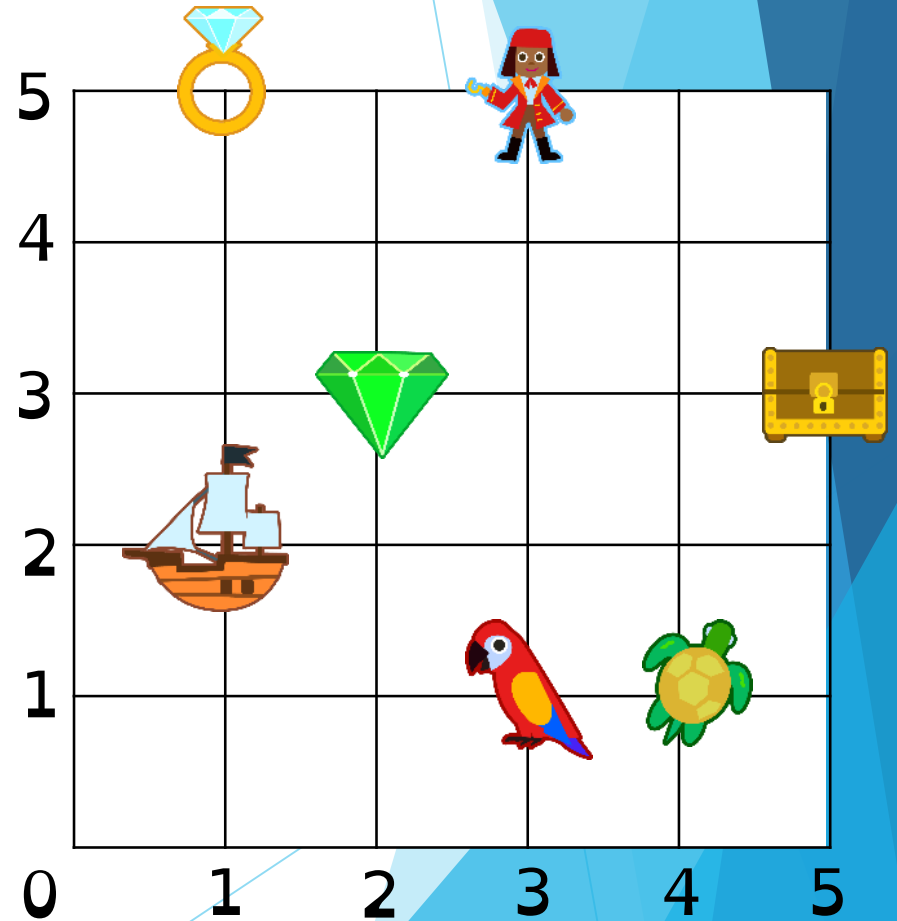
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

The pirate is at (3,5). To get to the turtle, she needs to get to (4,1).

Complete the sentence below.

To get to the turtle, the pirate needs to move right one space and down four spaces.



To be able to describe the movement of shapes and coordinates in the first quadrant

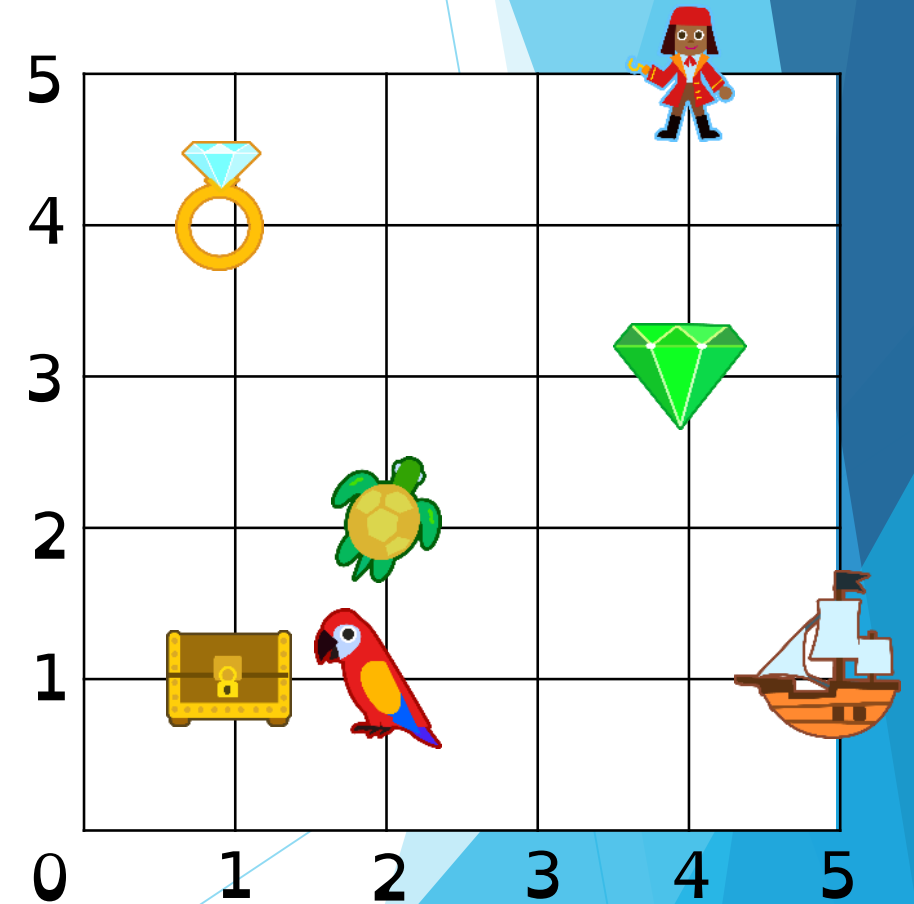
Activity 1:

The parrot is at (2,1). To get to the ship, he needs to get to (5,1).

To get to the ship, the parrot needs to move

The pirate is at (4,5). To get to the chest, she needs to get to (1,1).

To get to the chest, the pirate needs to move



To be able to describe the movement of shapes and coordinates in the first quadrant

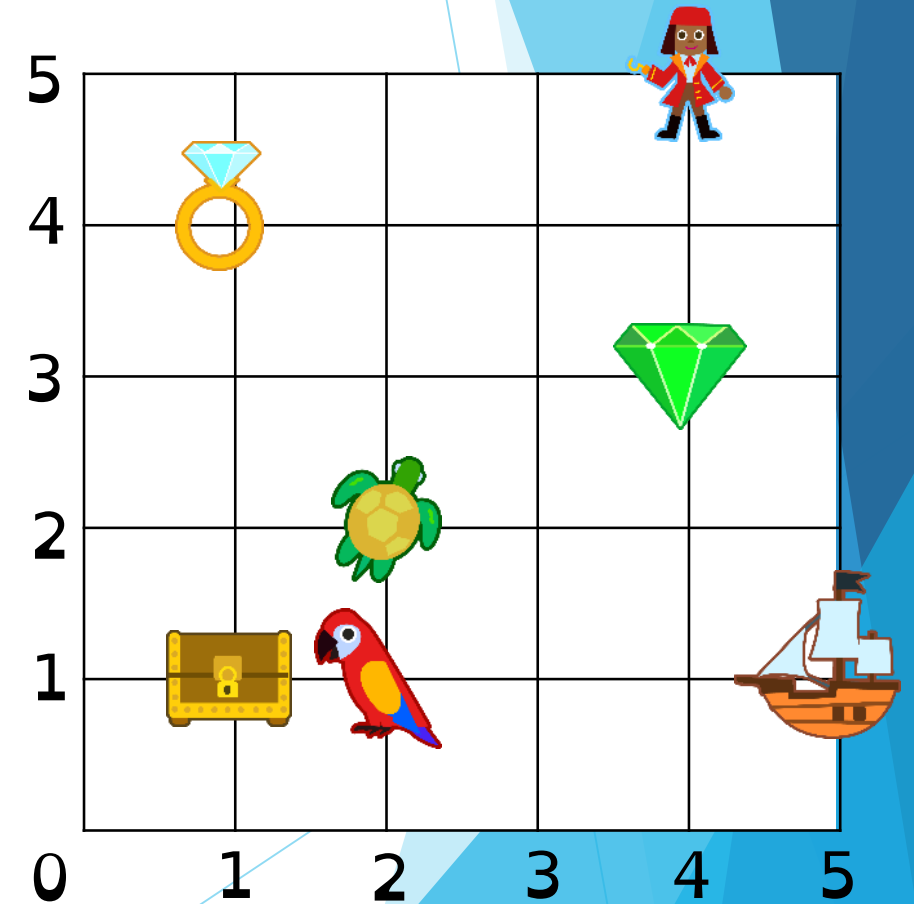
Activity 1:

The parrot is at (2,1). To get to the ship, he needs to get to (5,1).

To get to the ship, the parrot needs to move **right three spaces**.

The pirate is at (4,5). To get to the chest, she needs to get to (1,1).

To get to the chest, the pirate needs to move



To be able to describe the movement of shapes and coordinates in the first quadrant

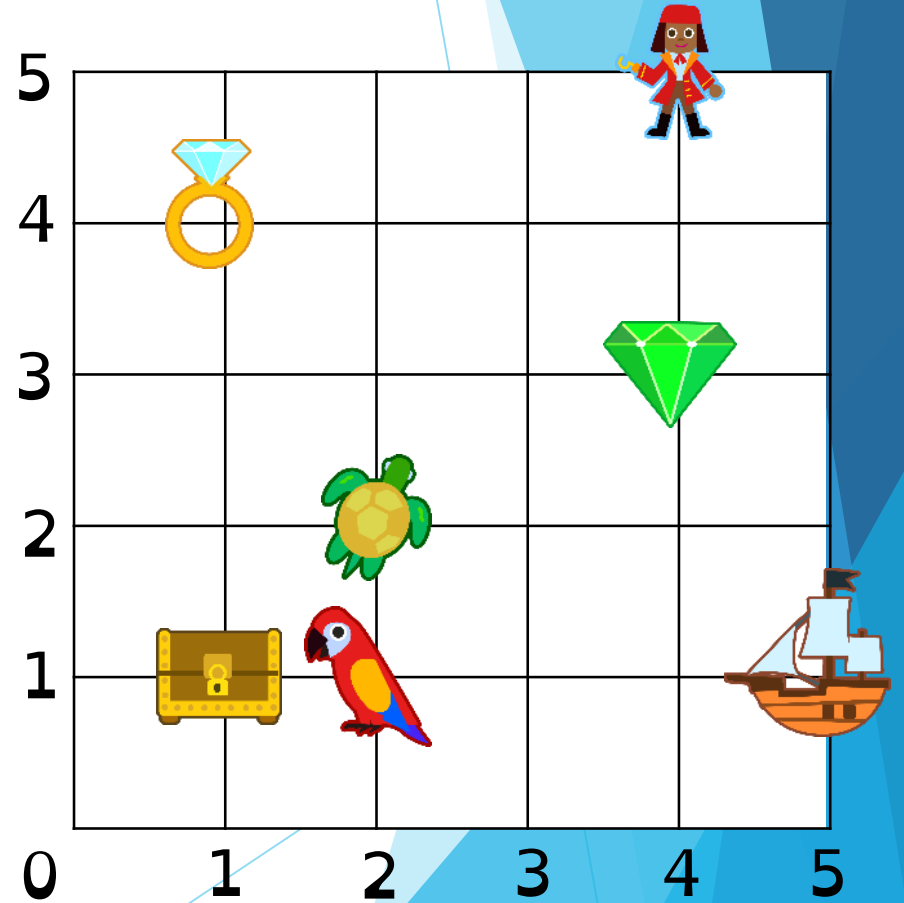
Activity 1:

The parrot is at (2,1). To get to the ship, he needs to get to (5,1).

To get to the ship, the parrot needs to move right three spaces.

The pirate is at (4,5). To get to the chest, she needs to get to (1,1).

To get to the chest, the pirate needs to move left three spaces and down four spaces.

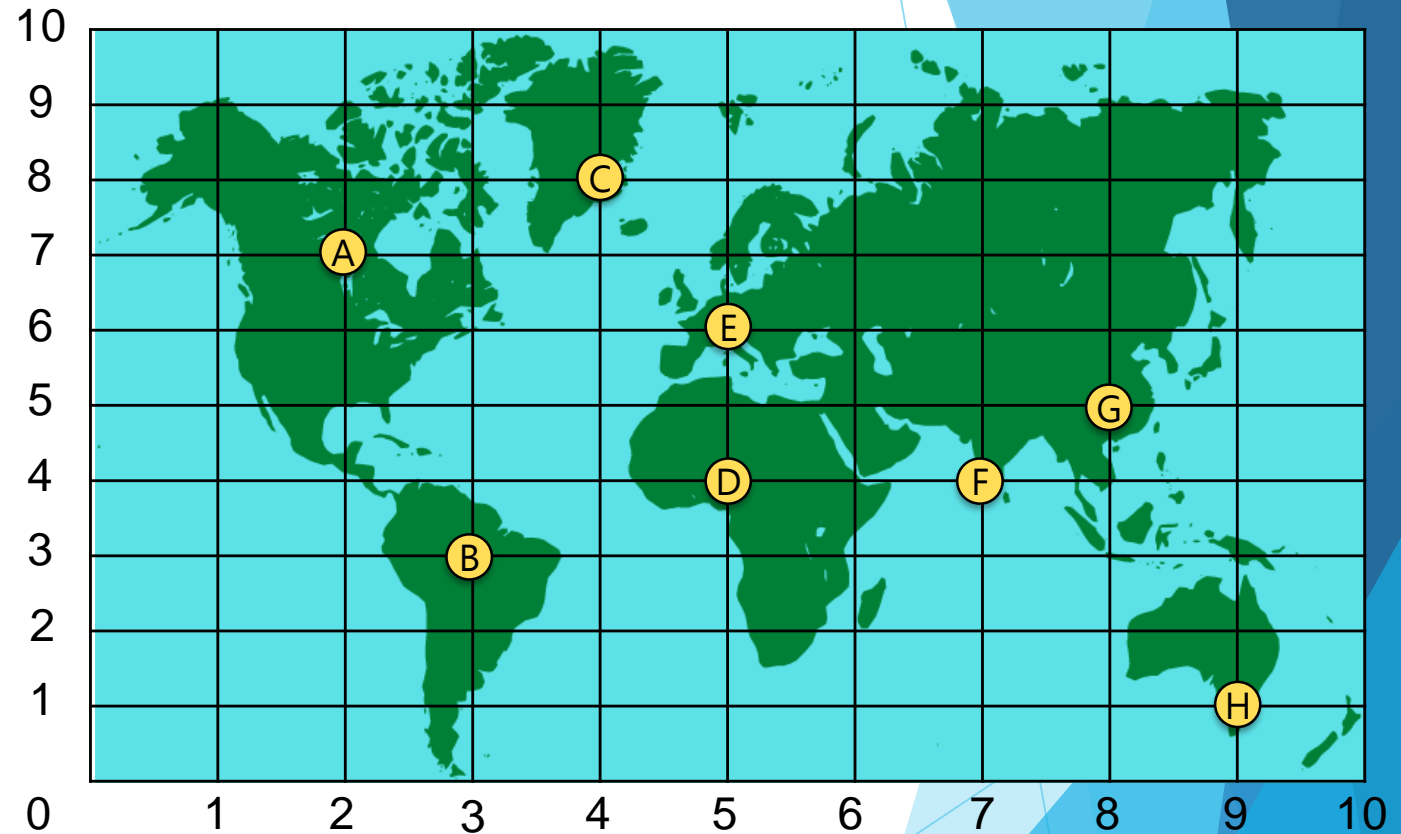


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point D to
Point E, it flies

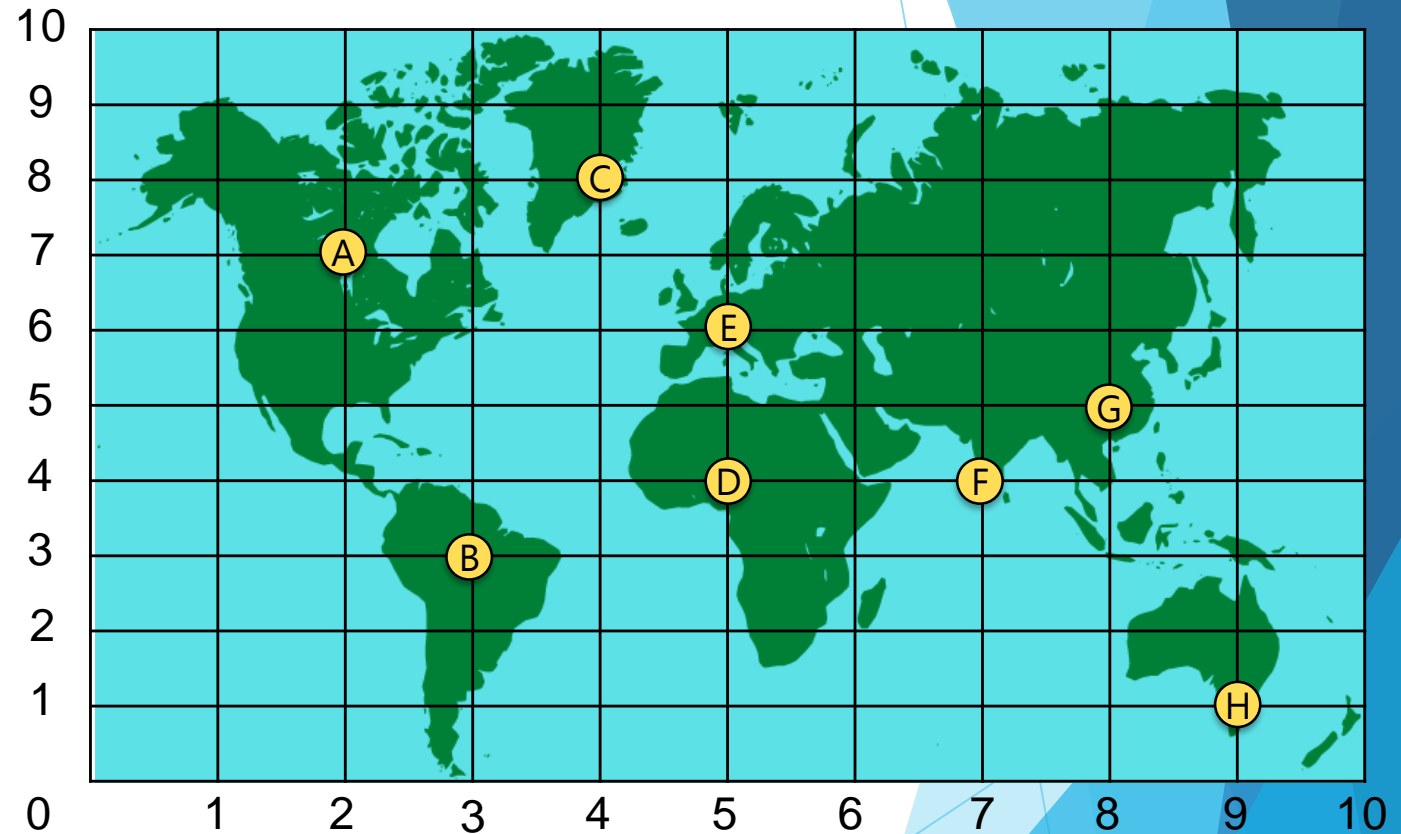


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point D to
Point E, it flies 2 spaces up.

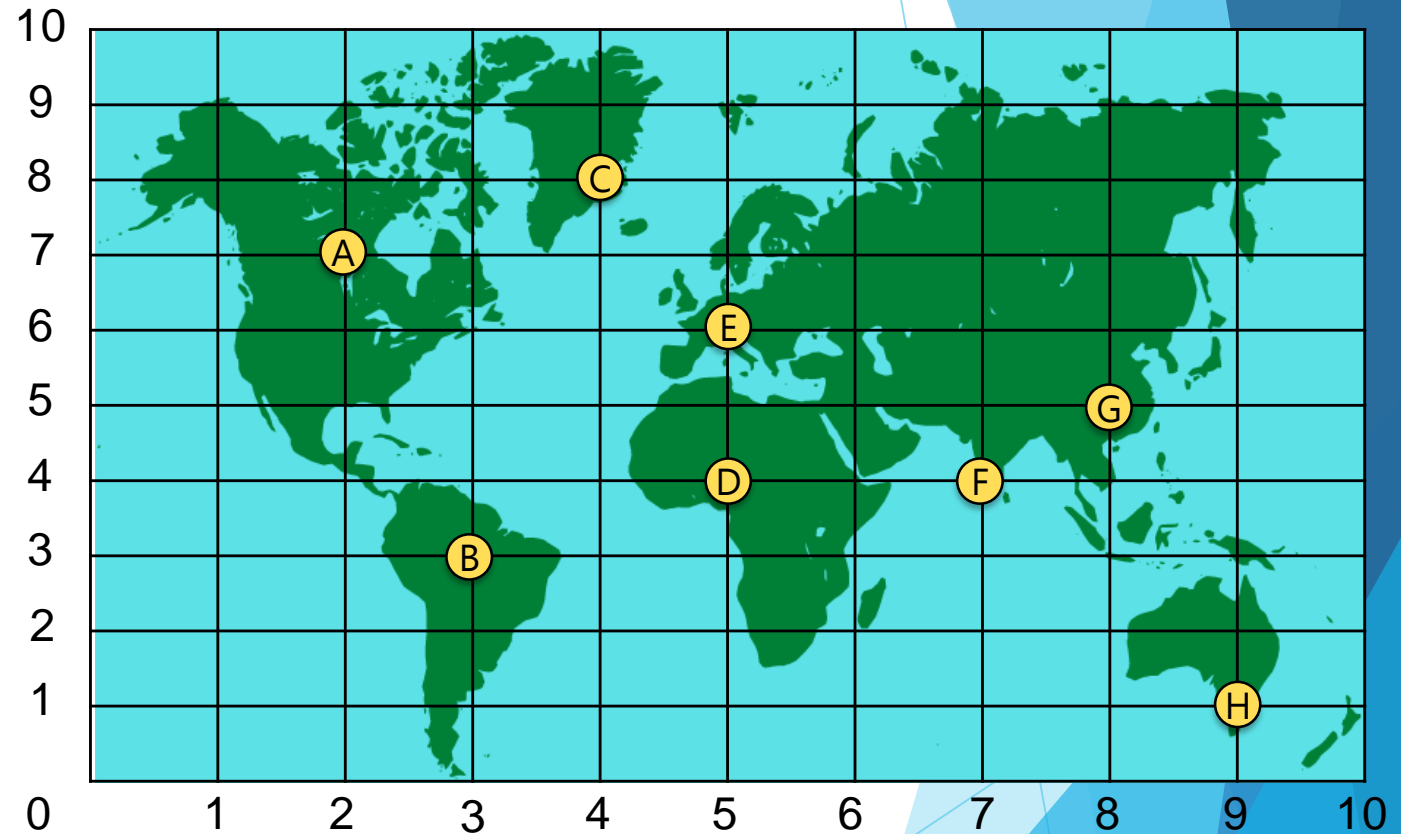


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point B to
Point D, it flies

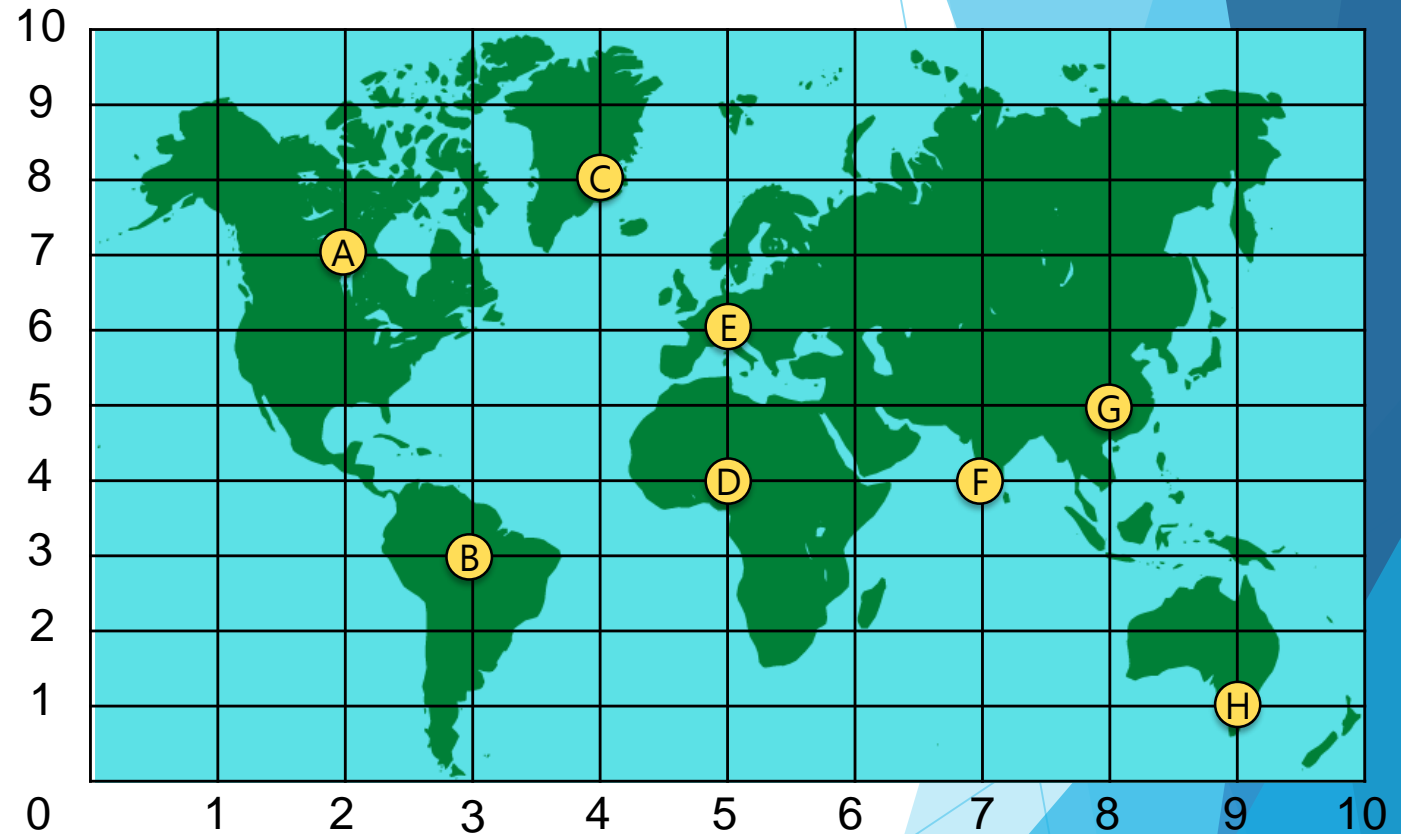


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point B to
Point D, it flies 2 spaces right
and 1 up.

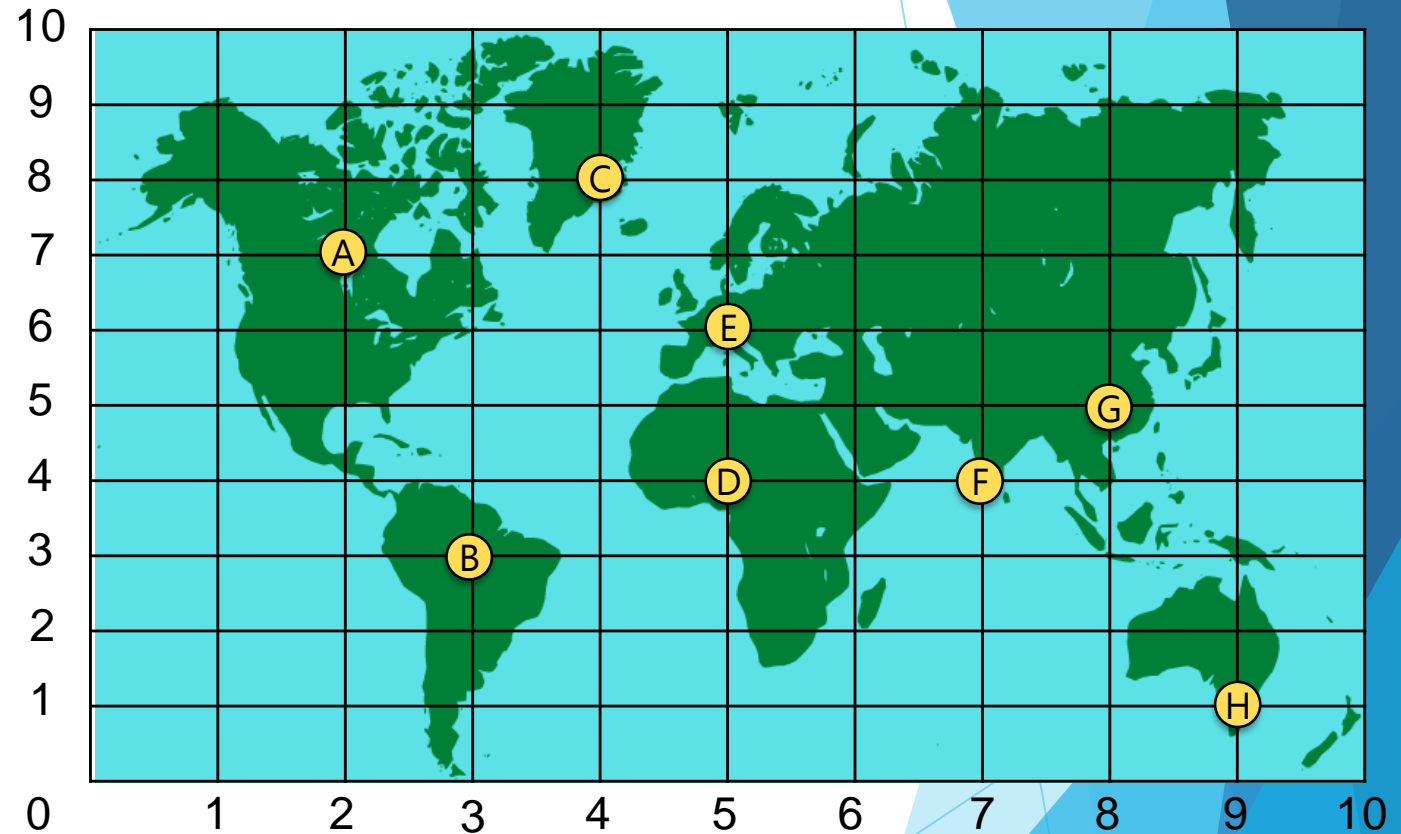


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point C to
Point A, it flies

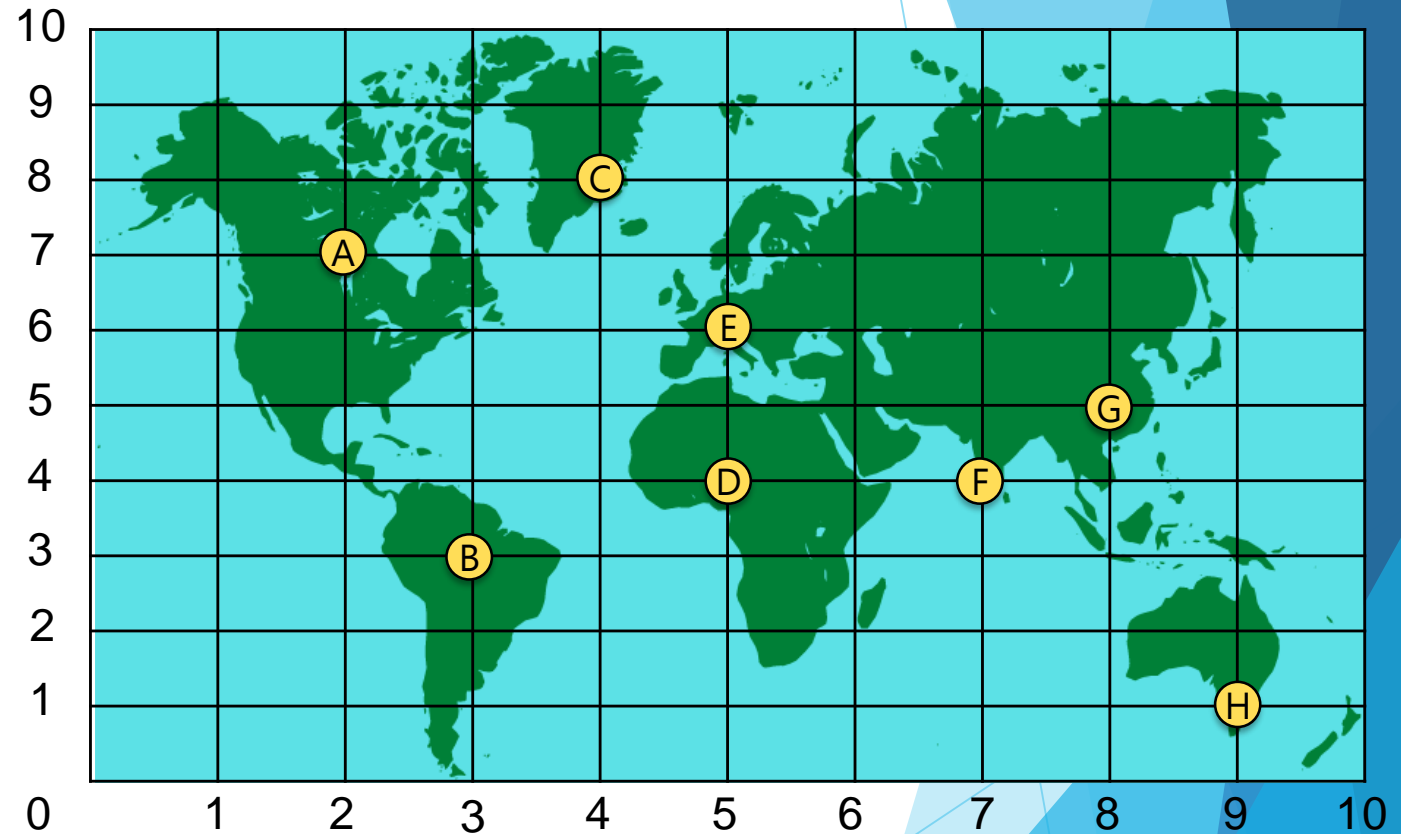


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point C to
Point A, it flies 2 spaces left
and 1 down.

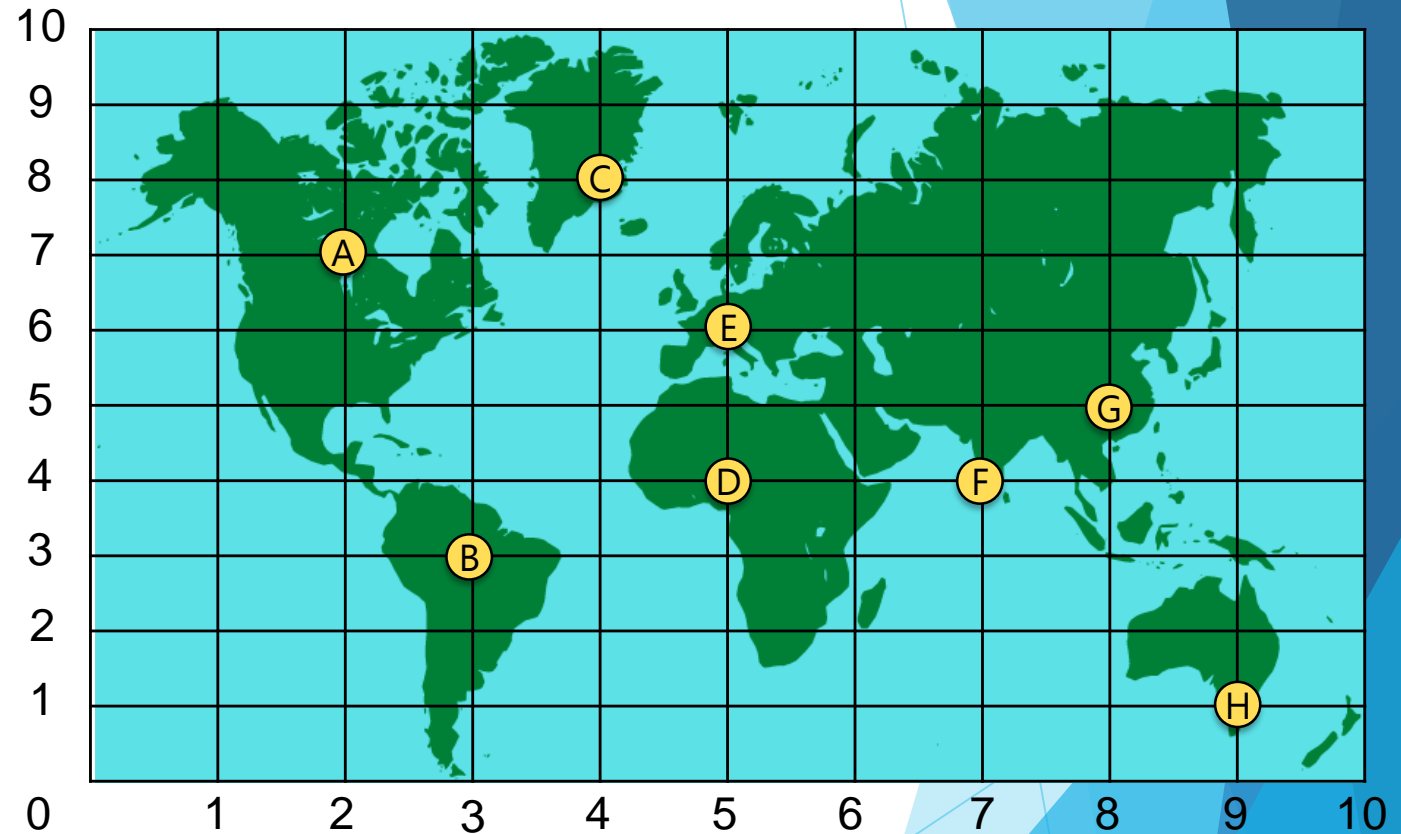


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point G to
Point E, it flies

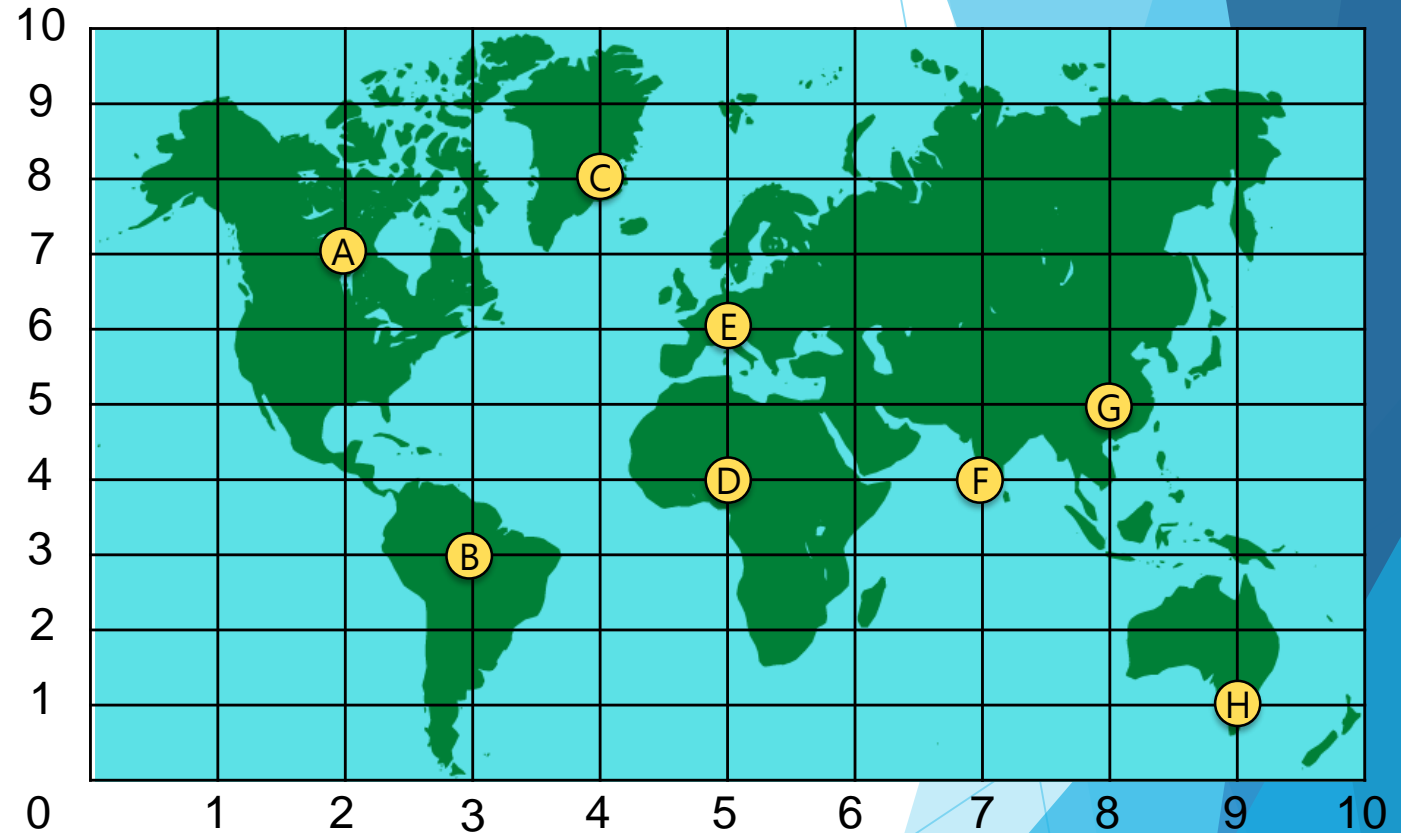


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

If a bird flies from Point G to
Point E, it flies 3 spaces left
and 1 up.



To be able to describe the movement of shapes
and coordinates in the first quadrant

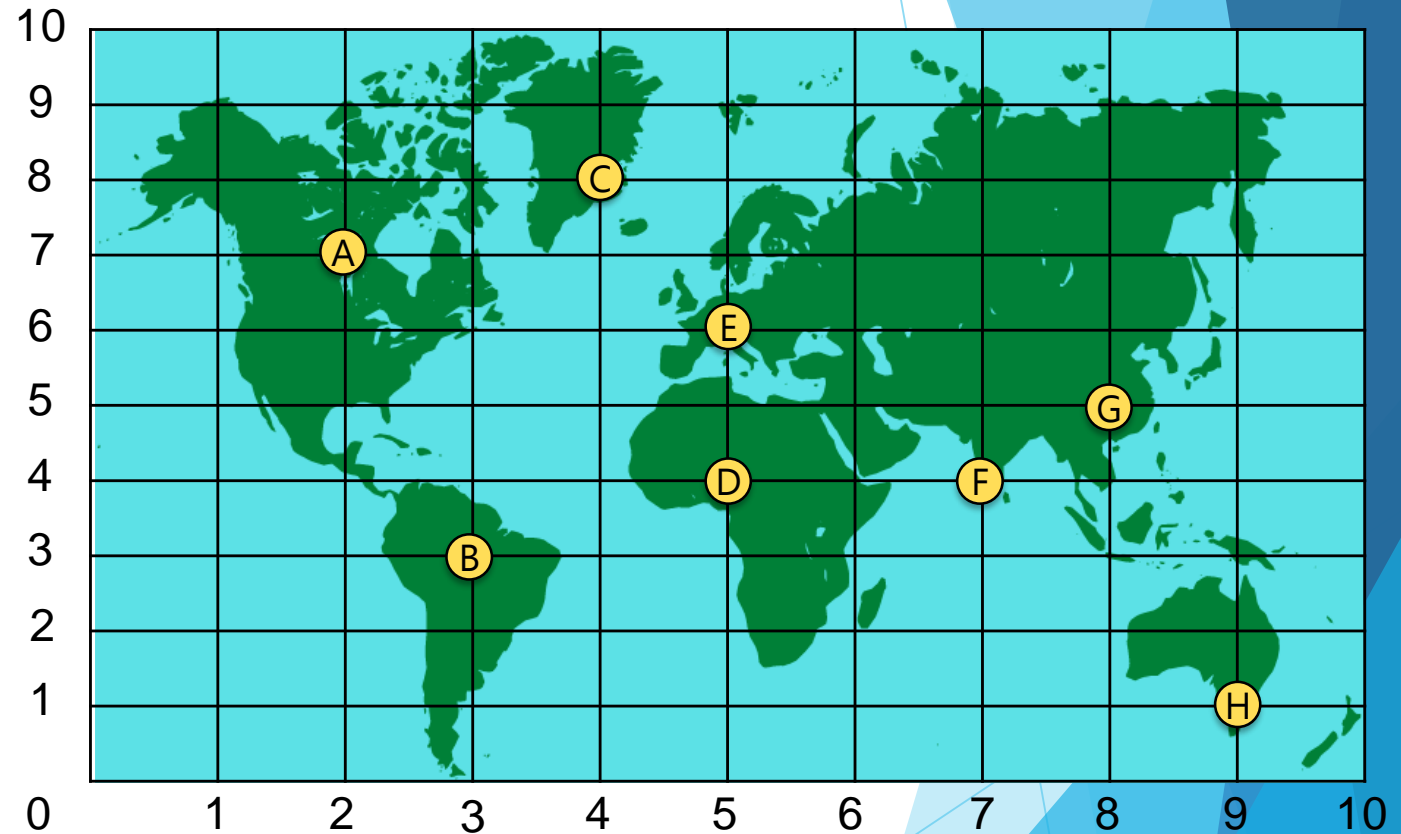
Activity 2:

Complete the sentence below.

If a bird flies from Point D to
Point G, it flies

If a bird flies from Point B to
Point E, it flies

If a bird flies from Point D to Point H, it flies



To be able to describe the movement of shapes and coordinates in the first quadrant

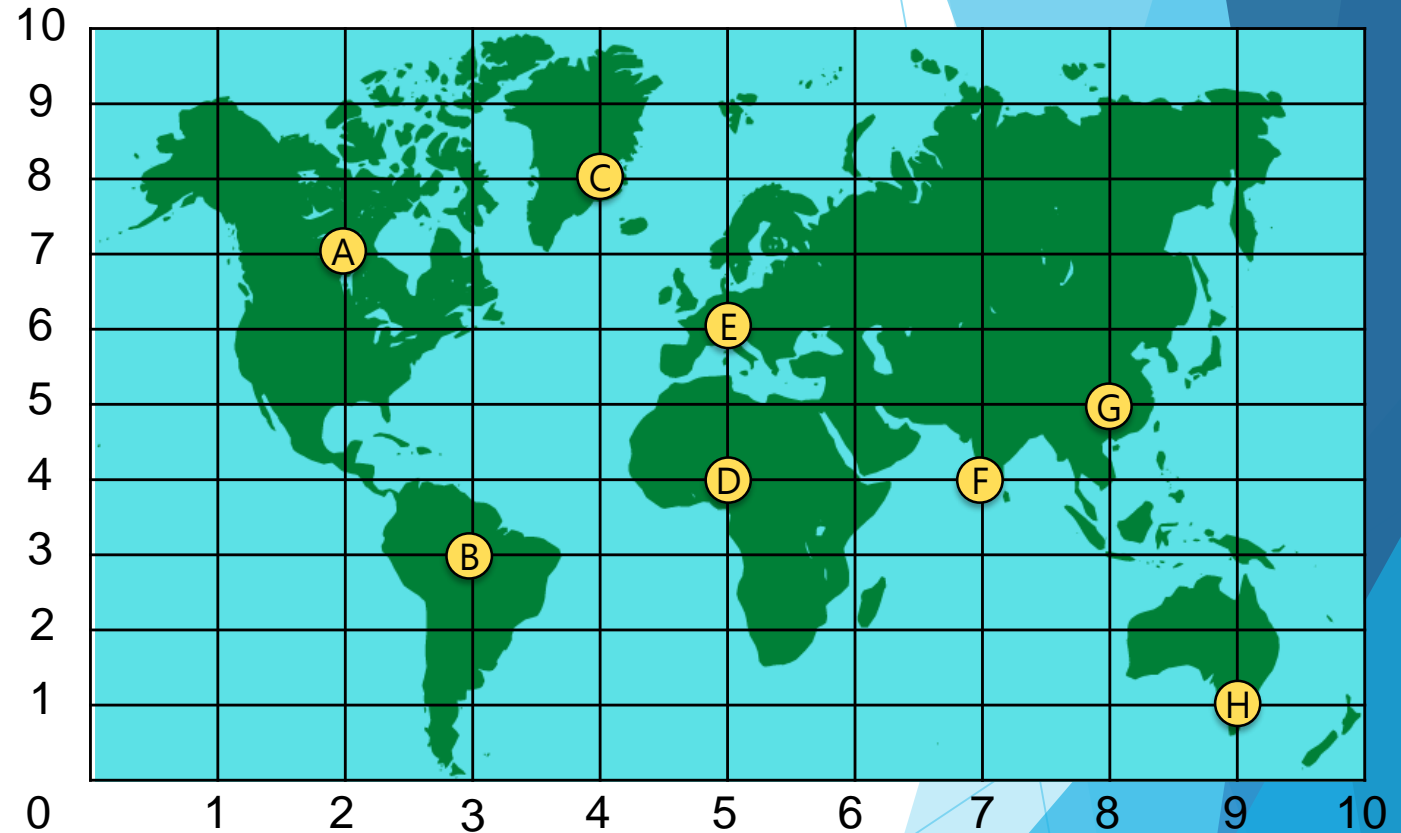
Activity 2:

Complete the sentence below.

If a bird flies from Point D to Point G, it flies 3 spaces right and 1 up.

If a bird flies from Point B to Point E, it flies

If a bird flies from Point D to Point H, it flies



To be able to describe the movement of shapes and coordinates in the first quadrant

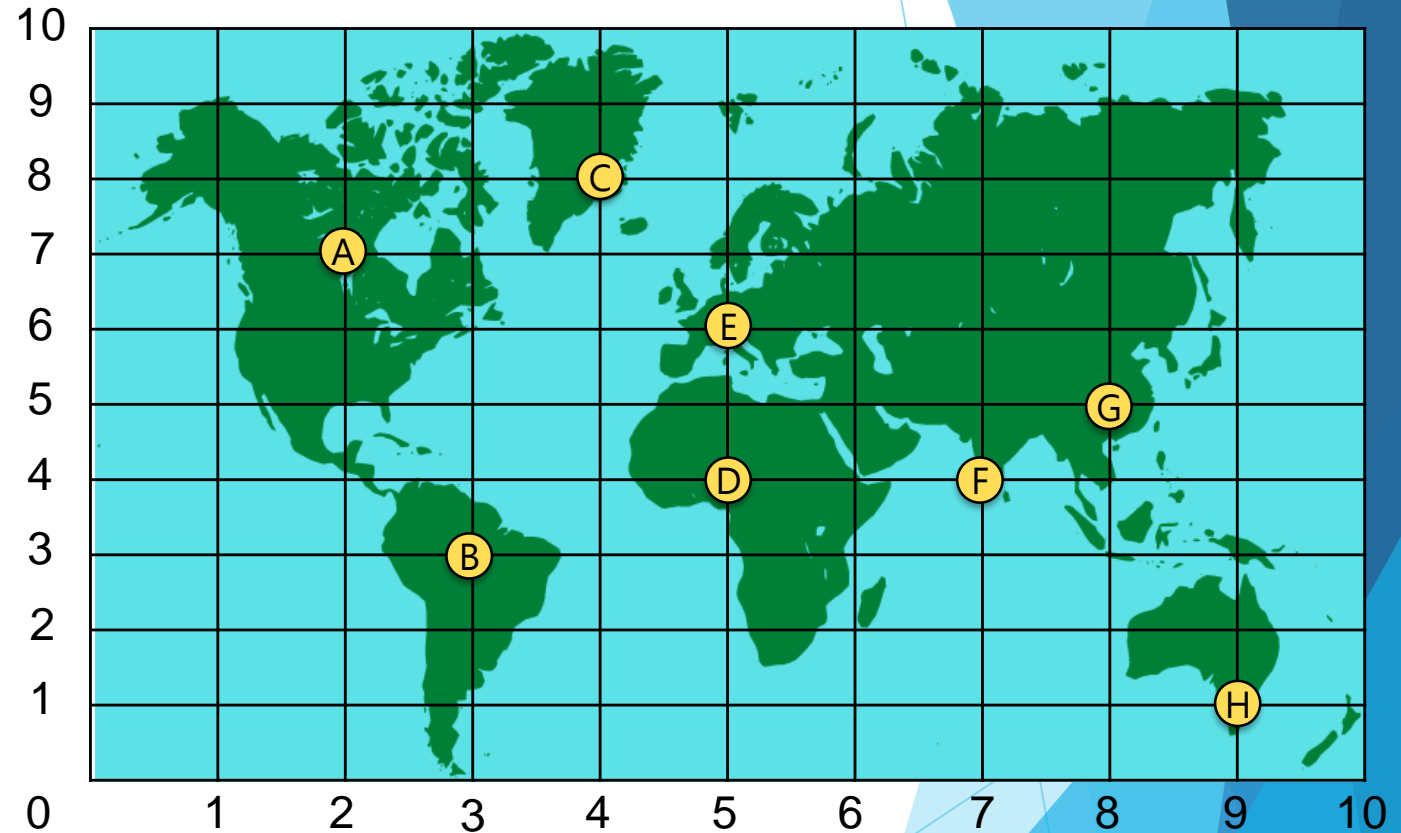
Activity 2:

Complete the sentence below.

If a bird flies from Point D to Point G, it flies 3 spaces right and 1 up.

If a bird flies from Point B to Point E, it flies 2 spaces right and 3 up.

If a bird flies from Point D to Point H, it flies



To be able to describe the movement of shapes and coordinates in the first quadrant

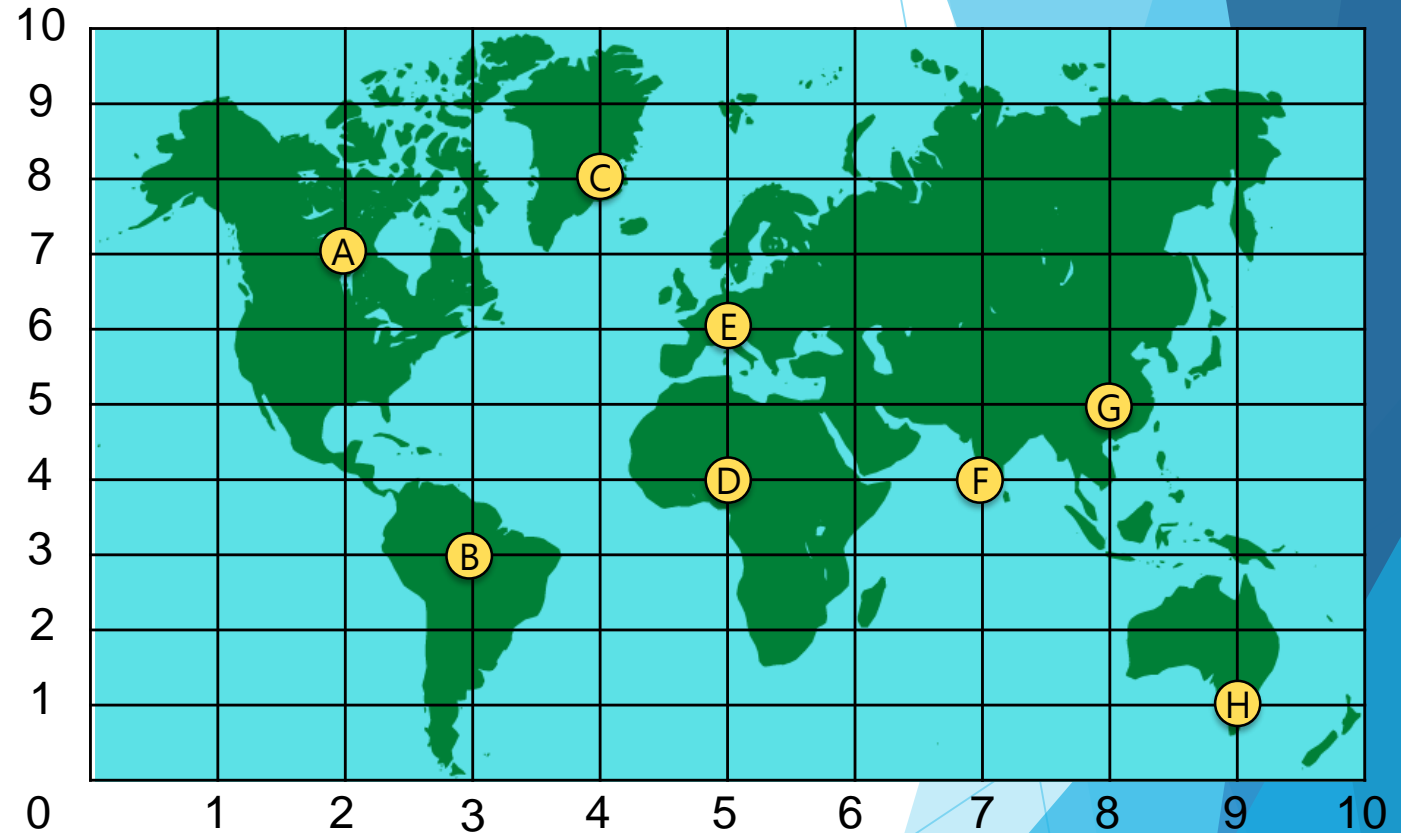
Activity 2:

Complete the sentence below.

If a bird flies from Point D to Point G, it flies 3 spaces right and 1 up.

If a bird flies from Point B to Point E, it flies 2 spaces right and 3 up.

If a bird flies from Point D to Point H, it flies 4 spaces right and 3 down.

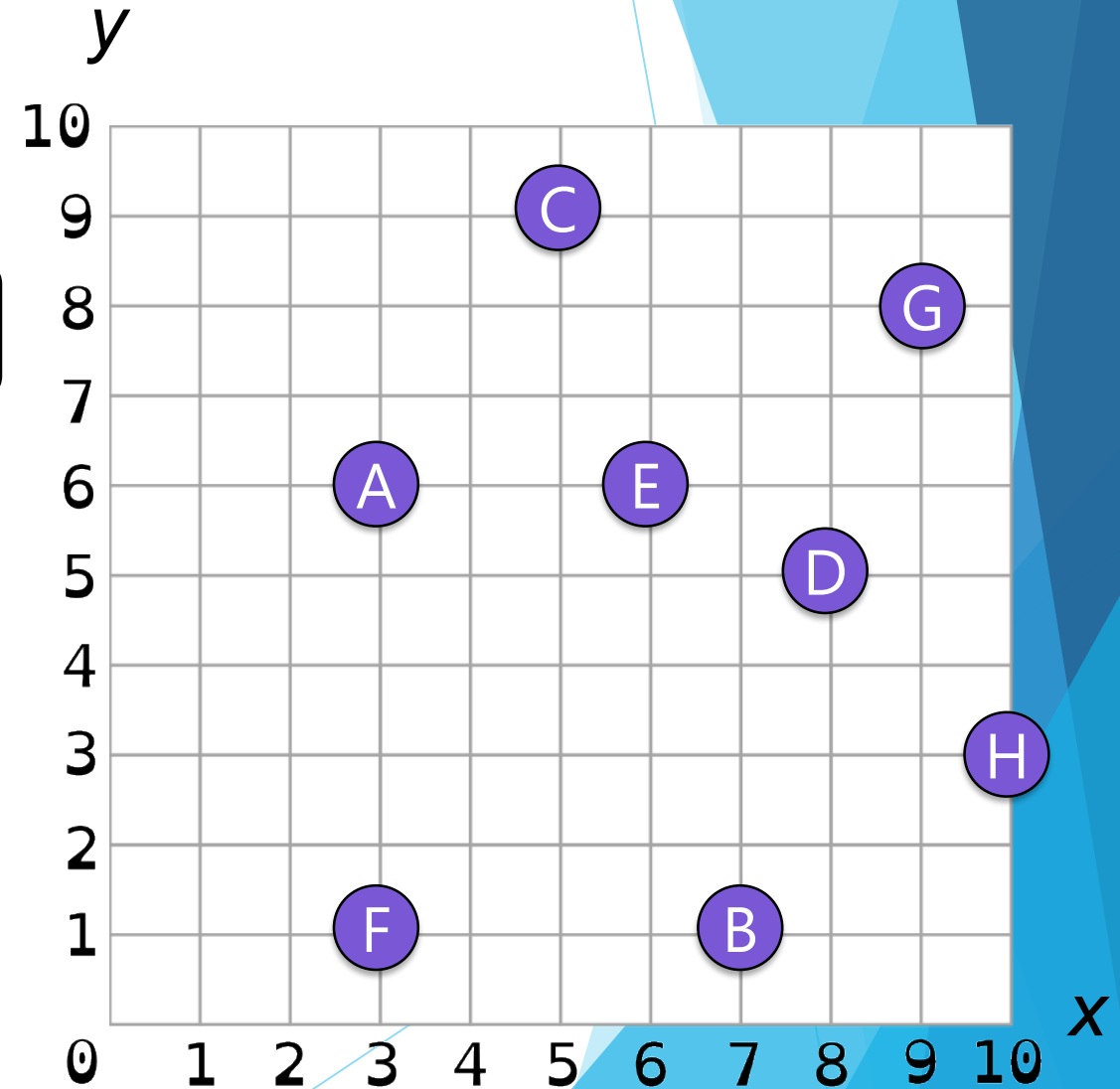


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

A to E is a translation

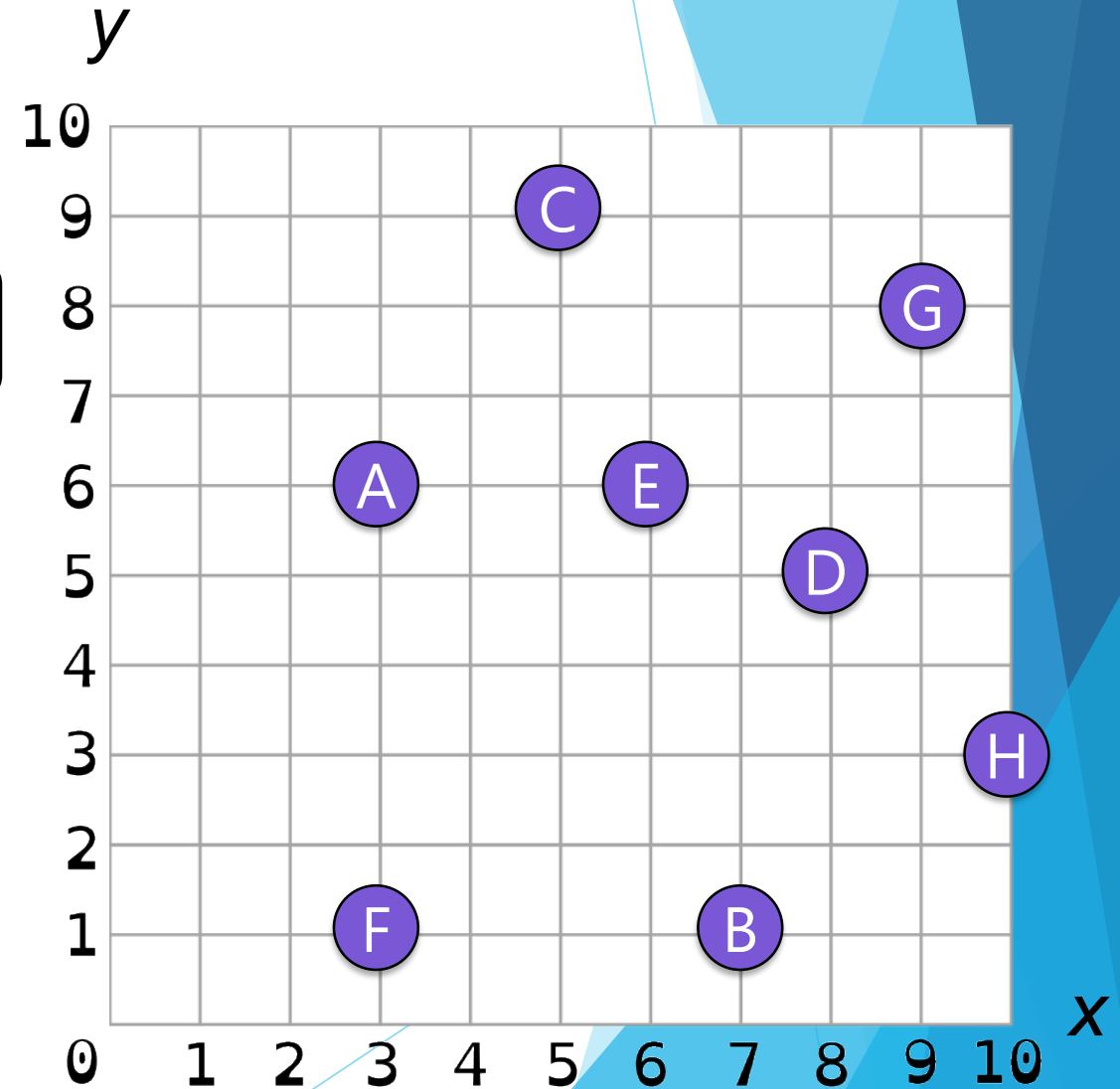


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

A to E is a translation **3 right**.

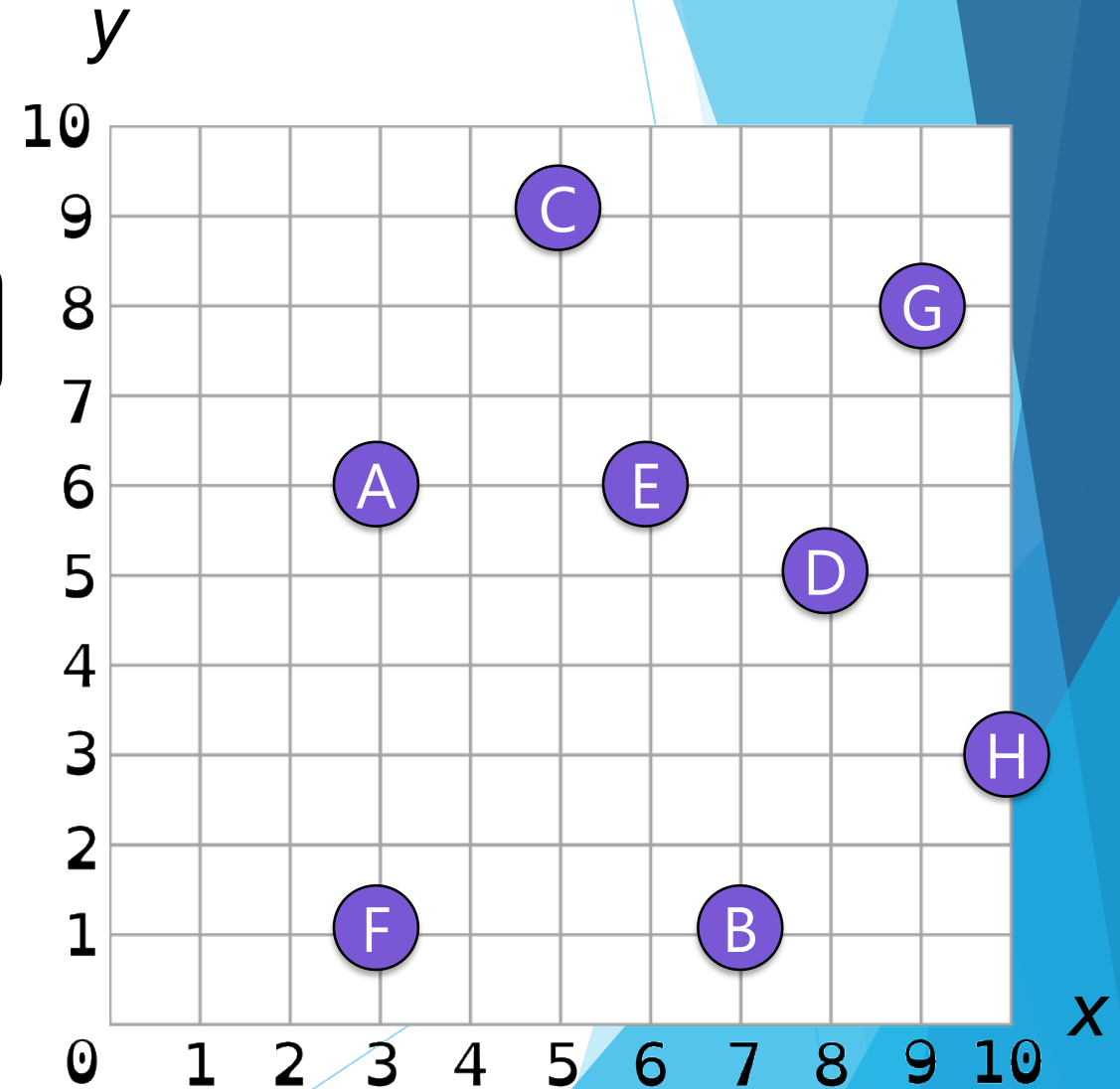


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

F to A is a translation

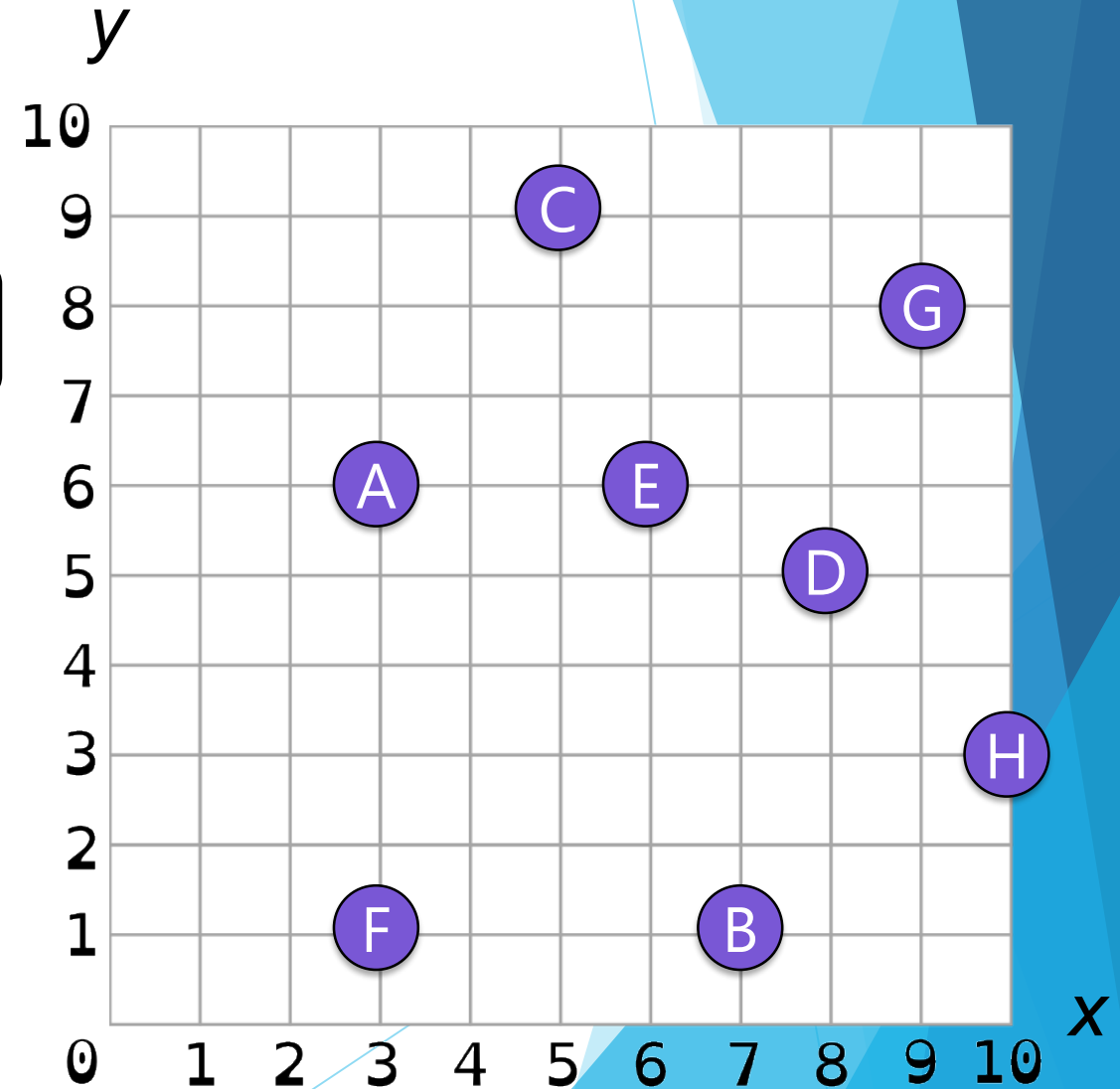


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

F to A is a translation **5 up**.

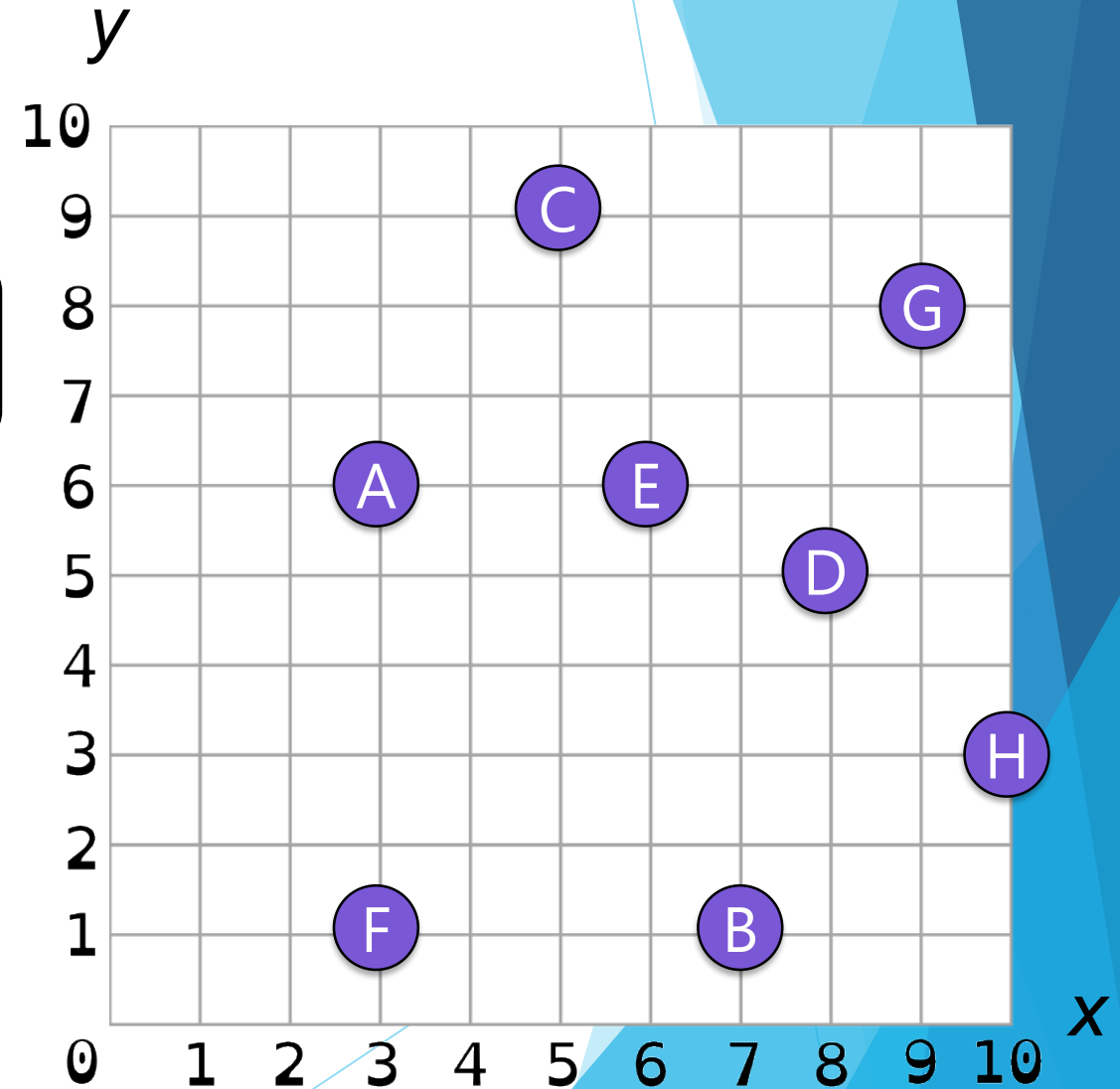


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

E to F is a translation

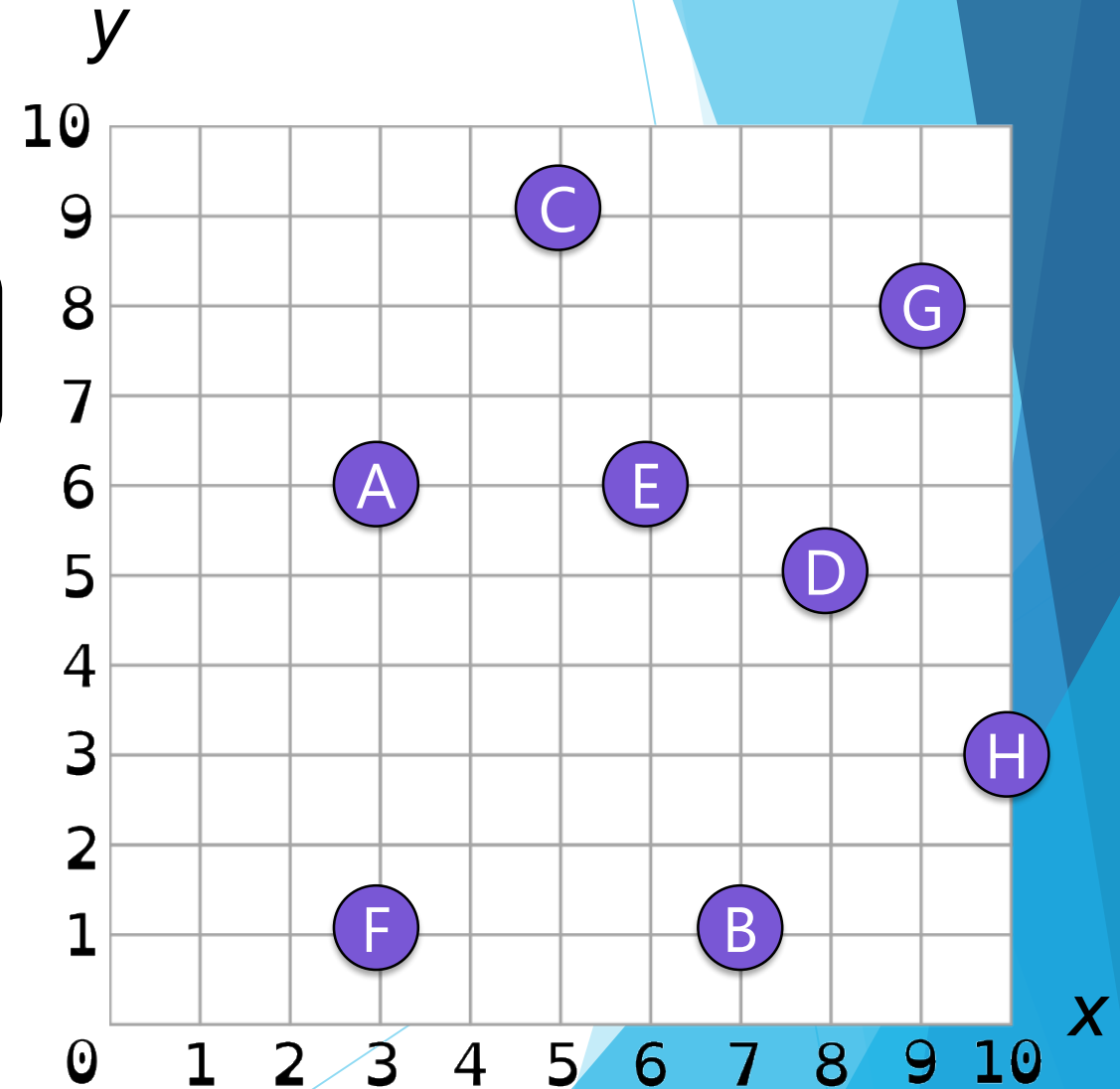


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

E to F is a translation **3 left and 5 down**.

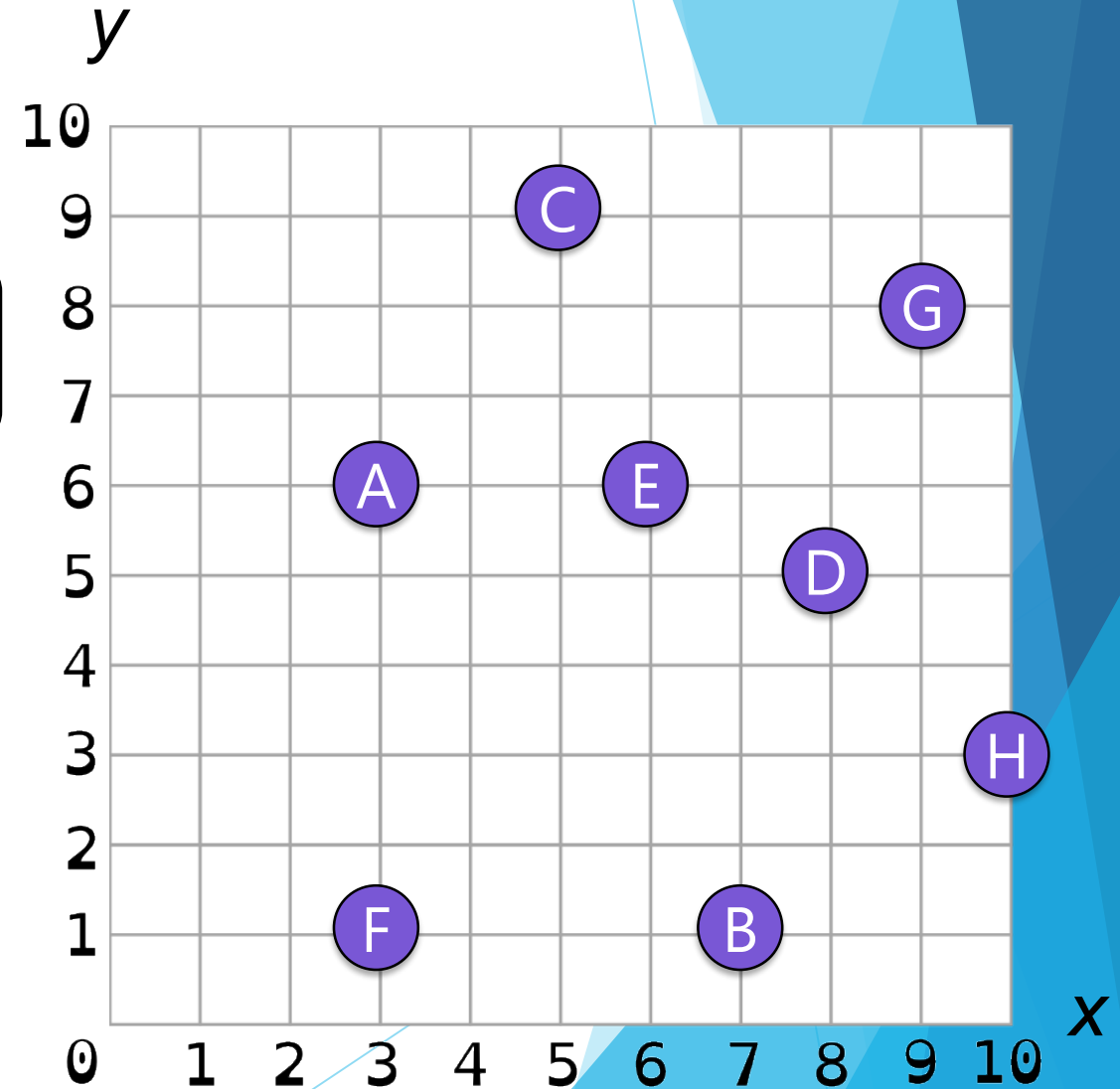


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

H to D is a translation

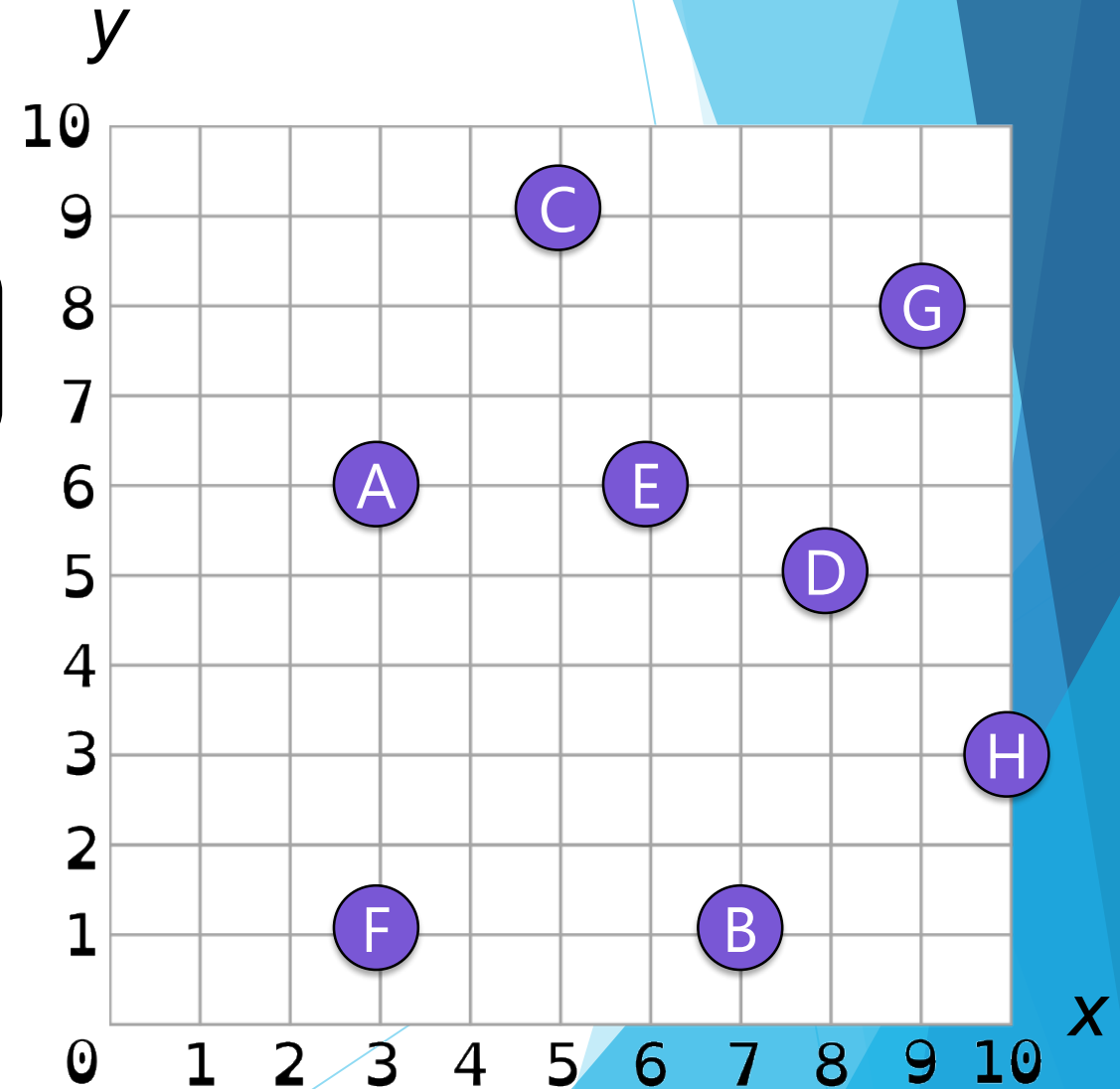


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

H to D is a translation **2 left and 2 up**.

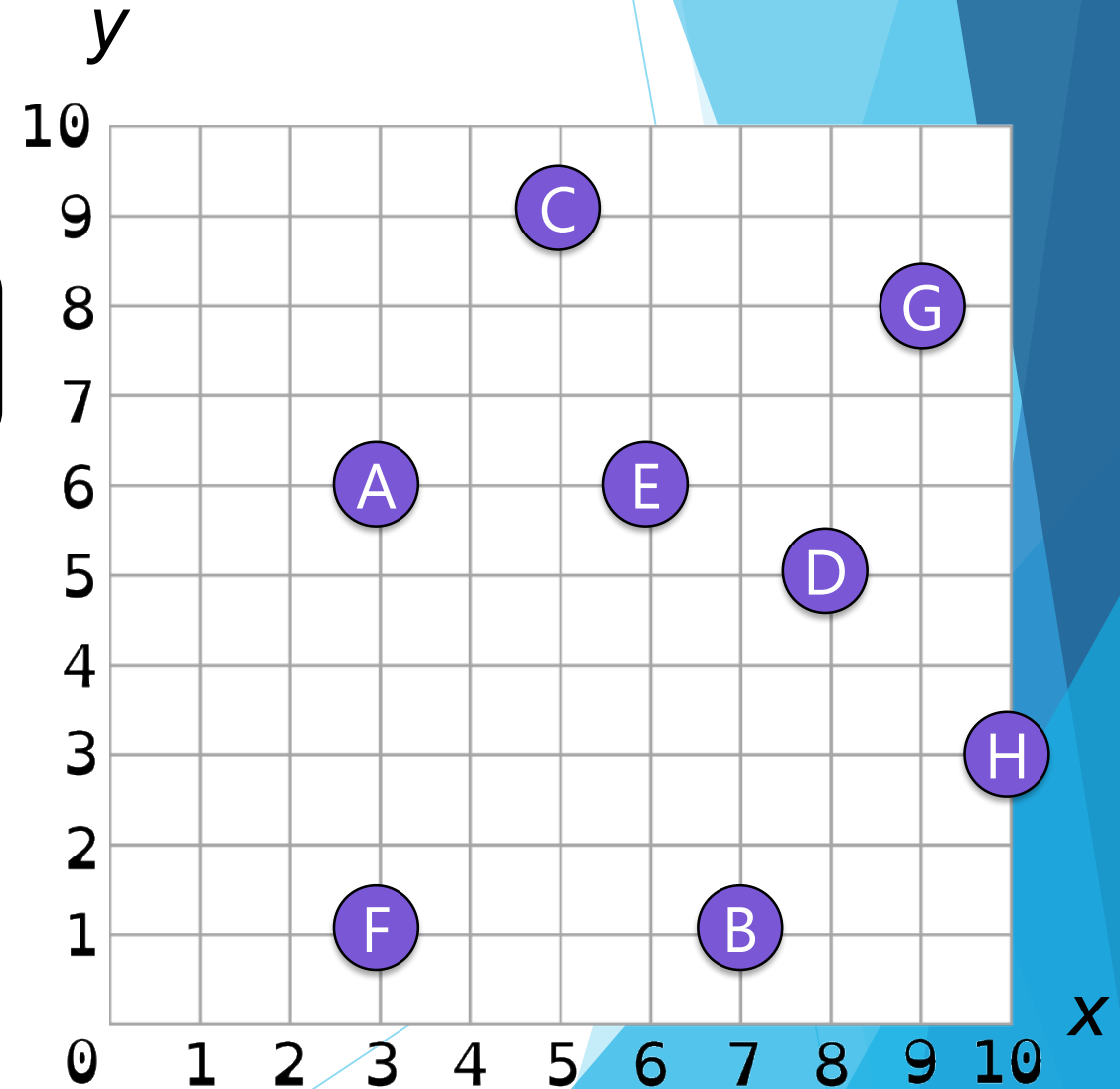


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

C to E is a translation

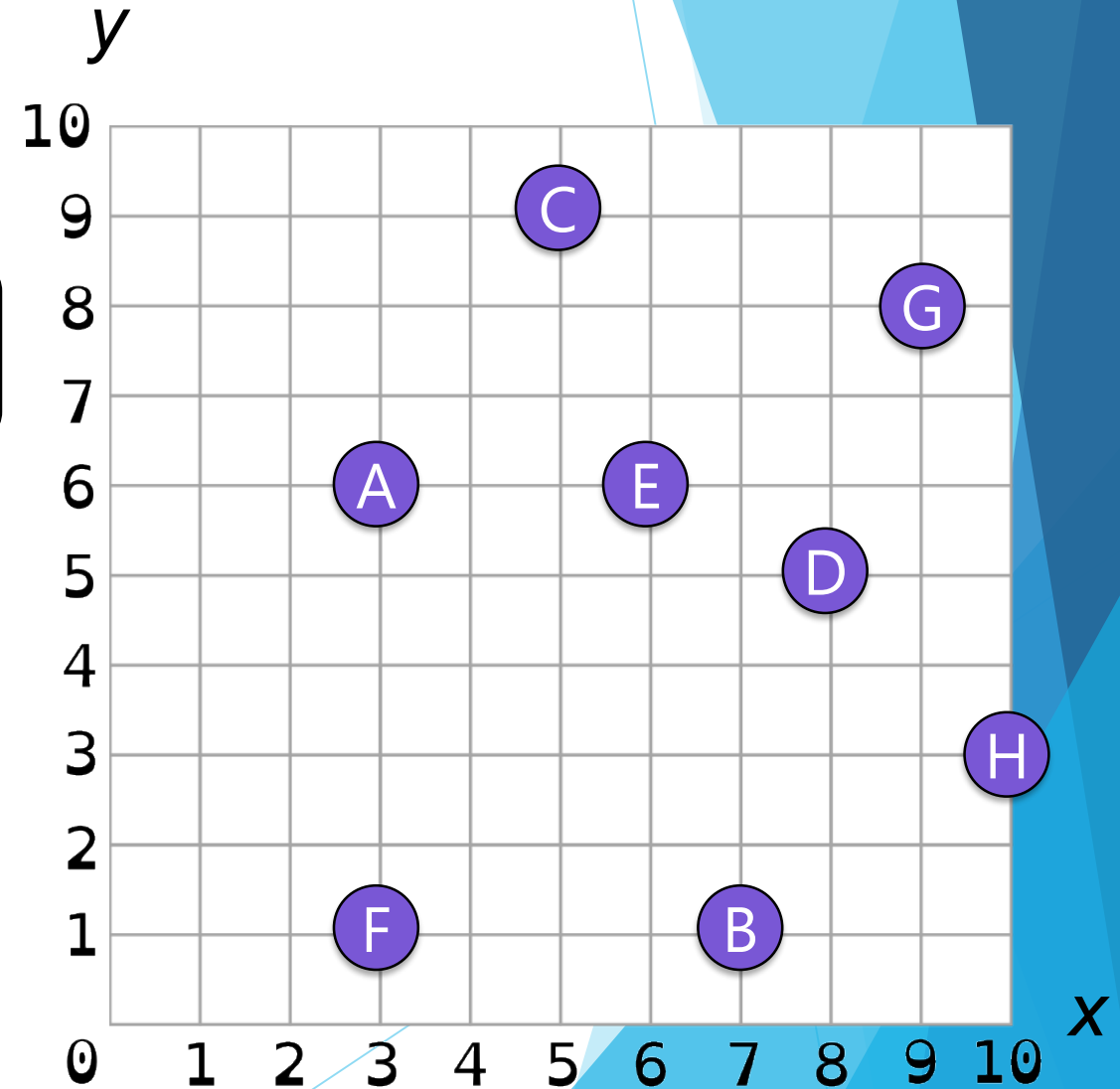


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

C to E is a translation 1 right and 3 down.

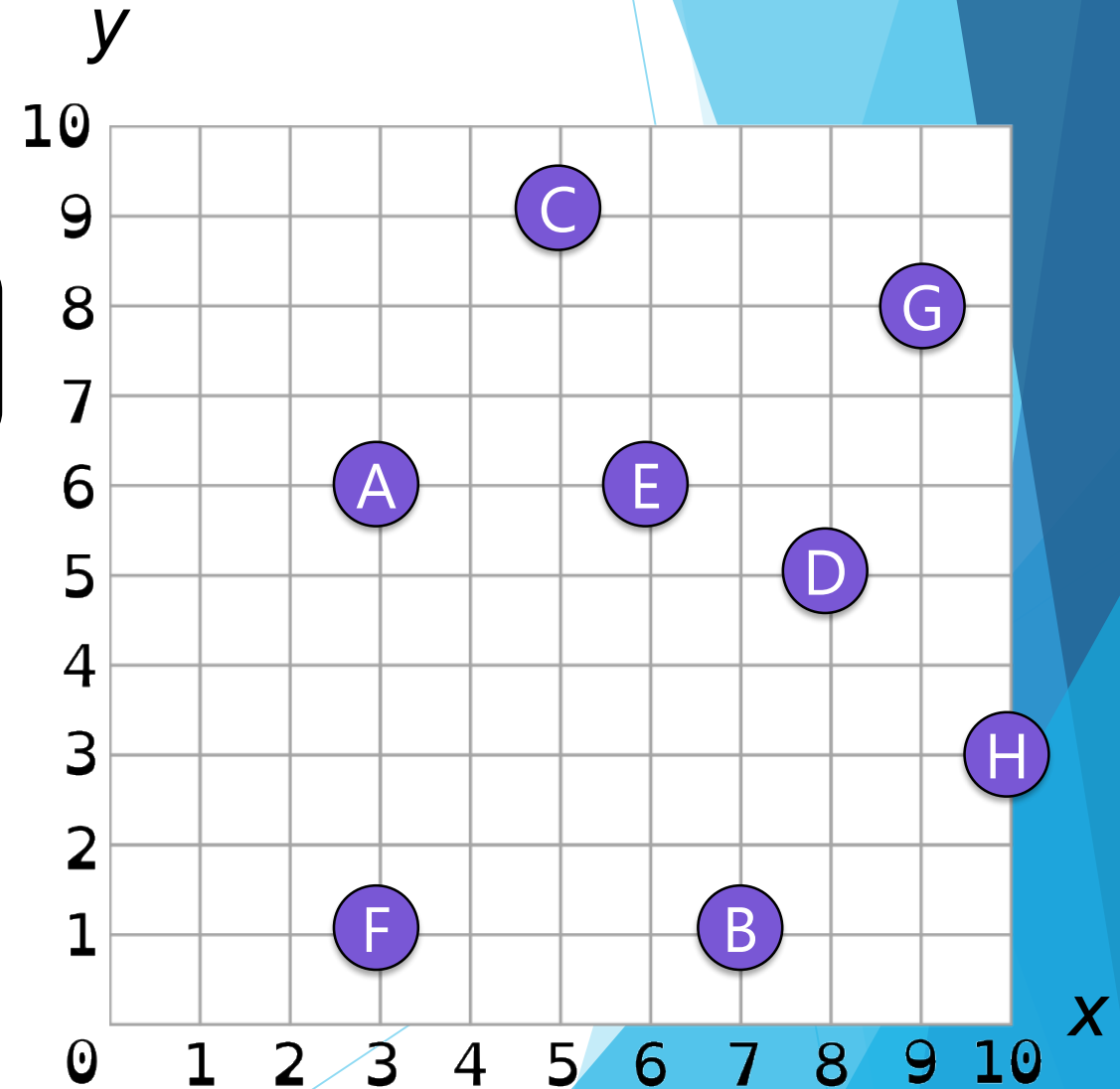


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

G to A is a translation

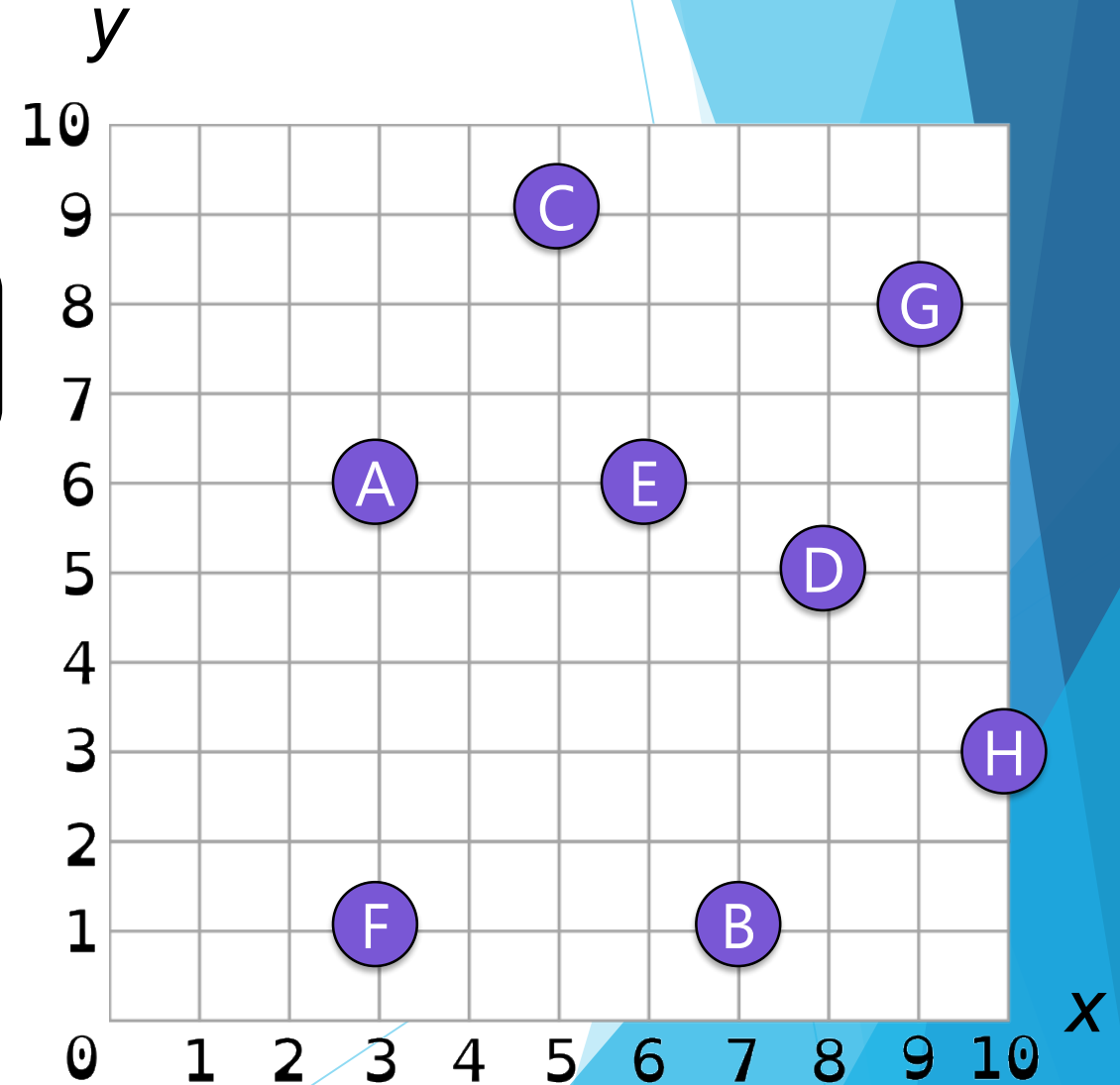


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

G to A is a translation **6 left and 2 down**.

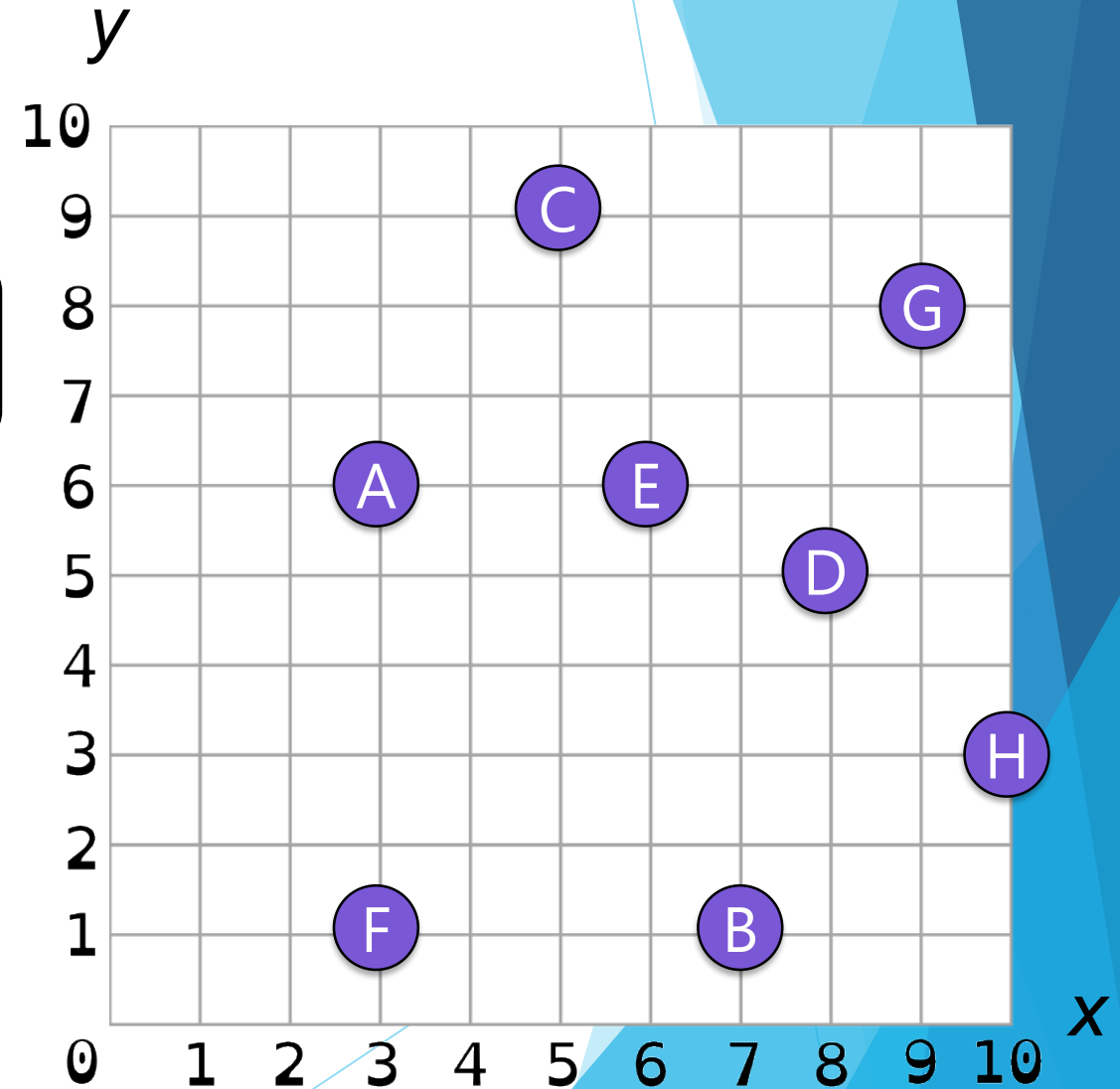


To be able to describe the movement of shapes
and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

B to D is a translation

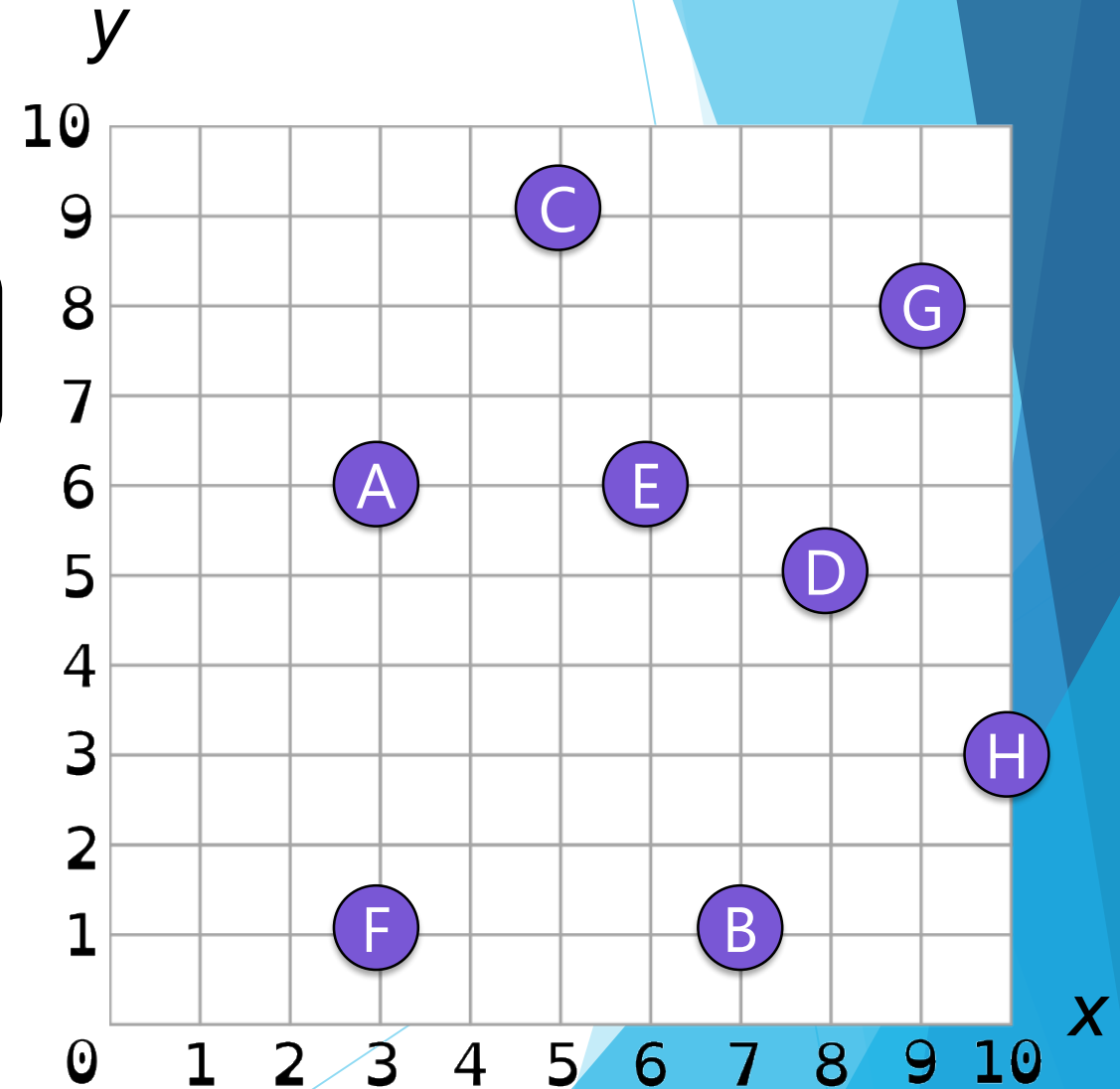


To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Complete the sentence below.

B to D is a translation 1 right and 4 up.



To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 3:

Complete the sentence below.

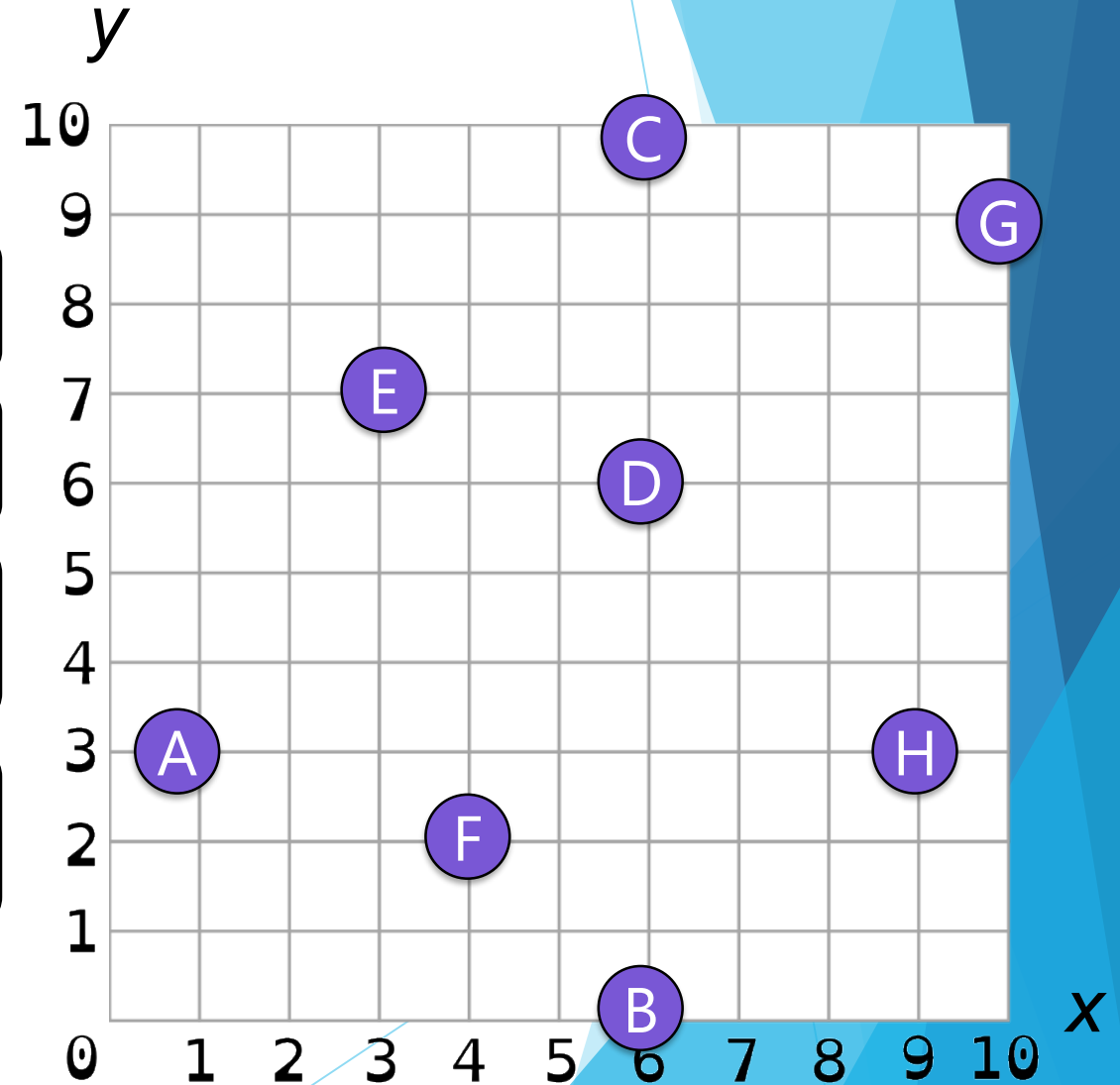
A to H is a translation

D to B is a translation

F to B is a translation

C to G is a translation

H to E is a translation



To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 3:

Complete the sentence below.

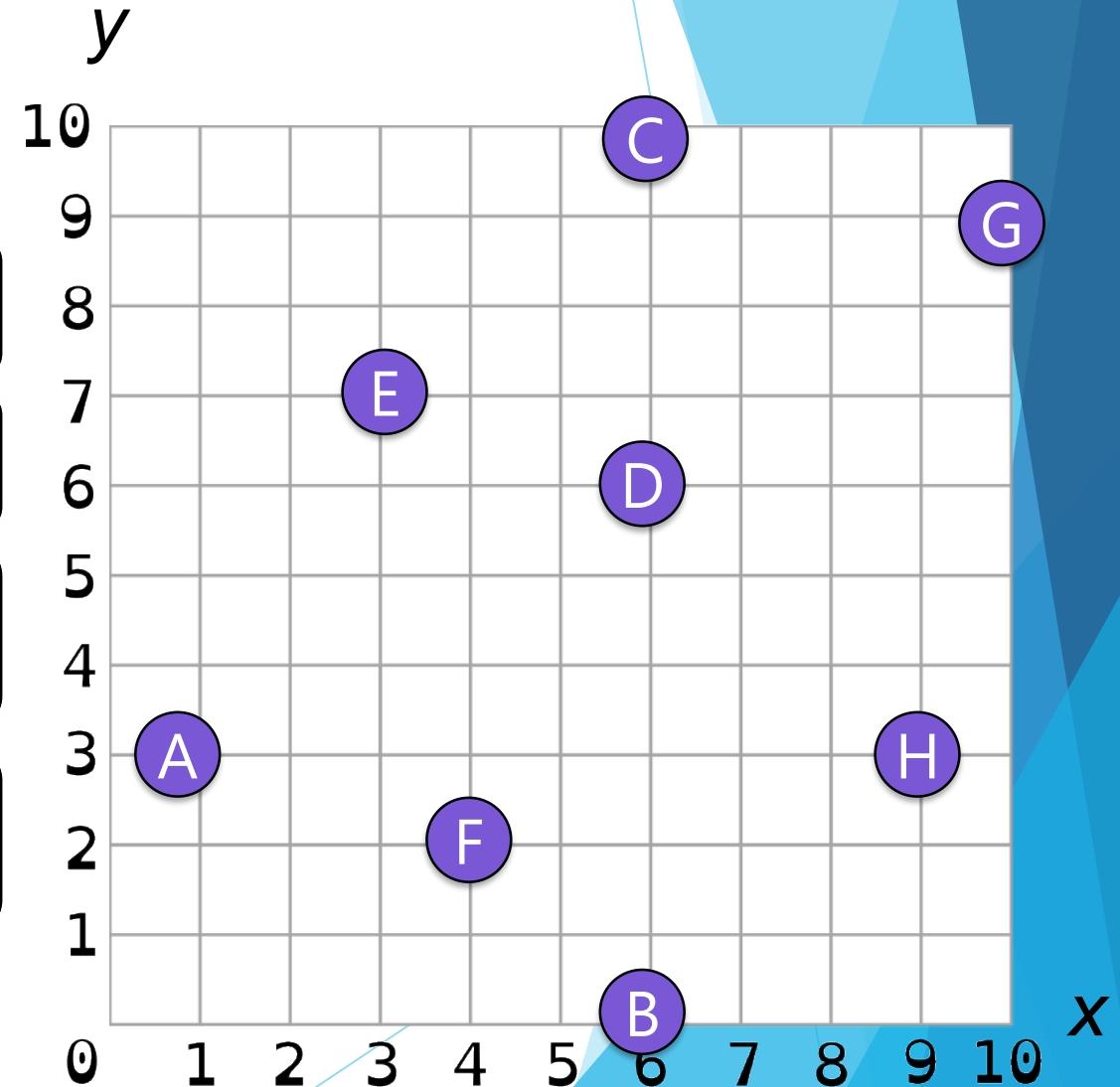
A to H is a translation 8 right.

D to B is a translation 6 down.

F to B is a translation 2 right and 2 down.

C to G is a translation 4 right and 1 down.

H to E is a translation 6 left and 4 up.



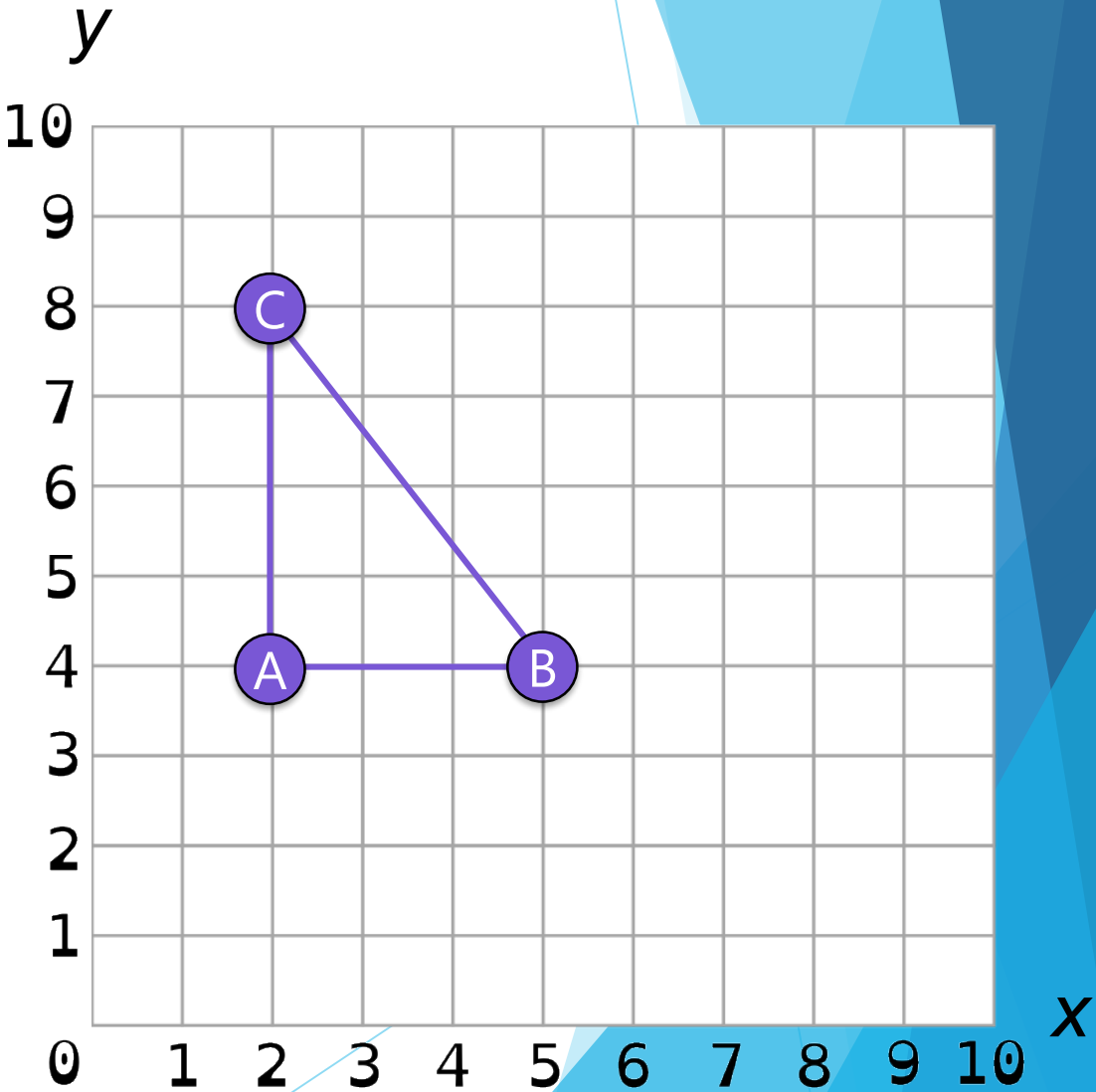
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
	A (6,2)



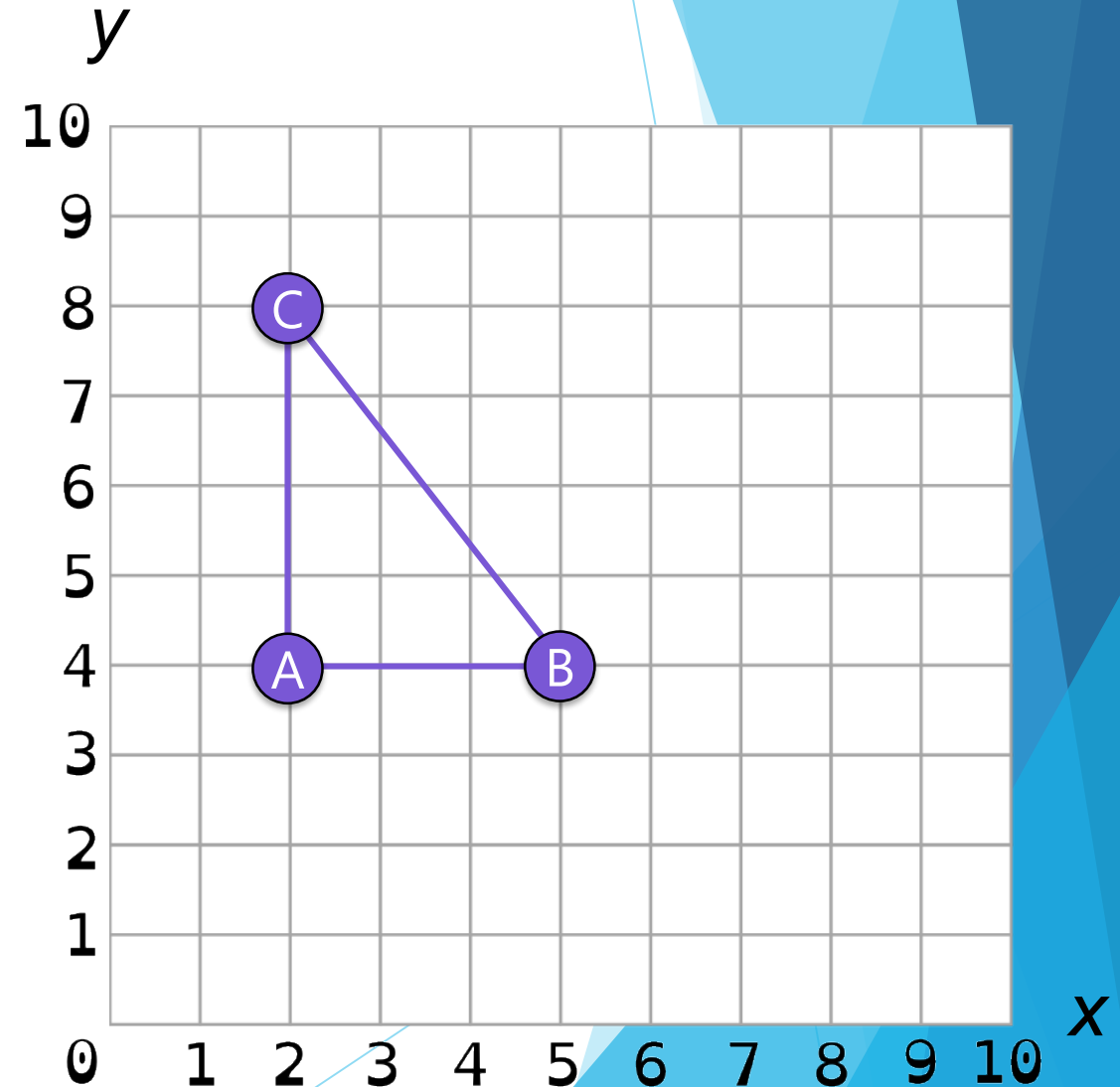
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (2,4)	A (6,2)
B (5,4)	
C (2,8)	



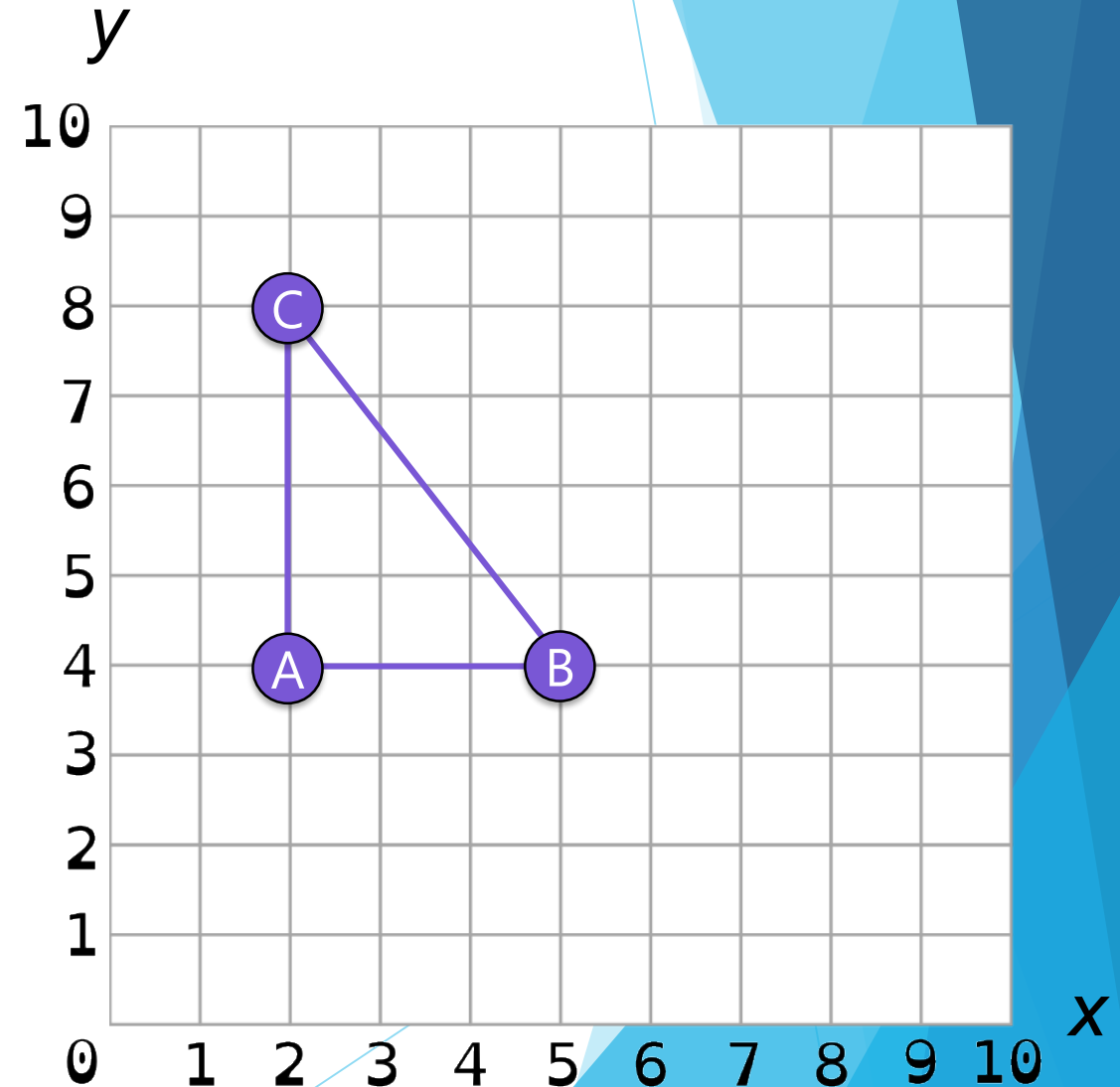
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (2,4)	A (6,2)
B (5,4)	B (9,2)
C (2,8)	C (6,6)



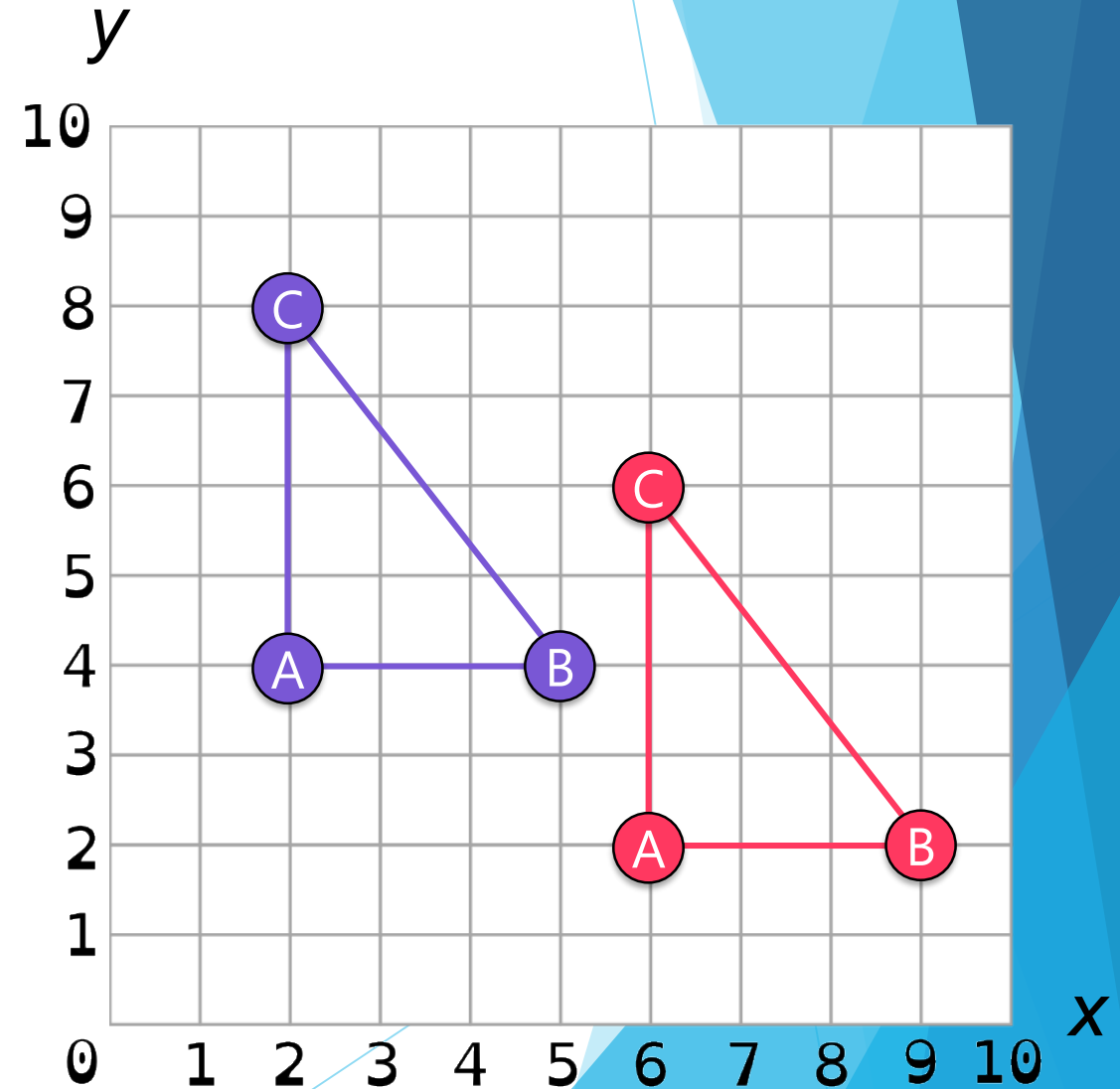
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (2,4)	A (6,2)
B (5,4)	B (9,2)
C (2,8)	C (6,6)



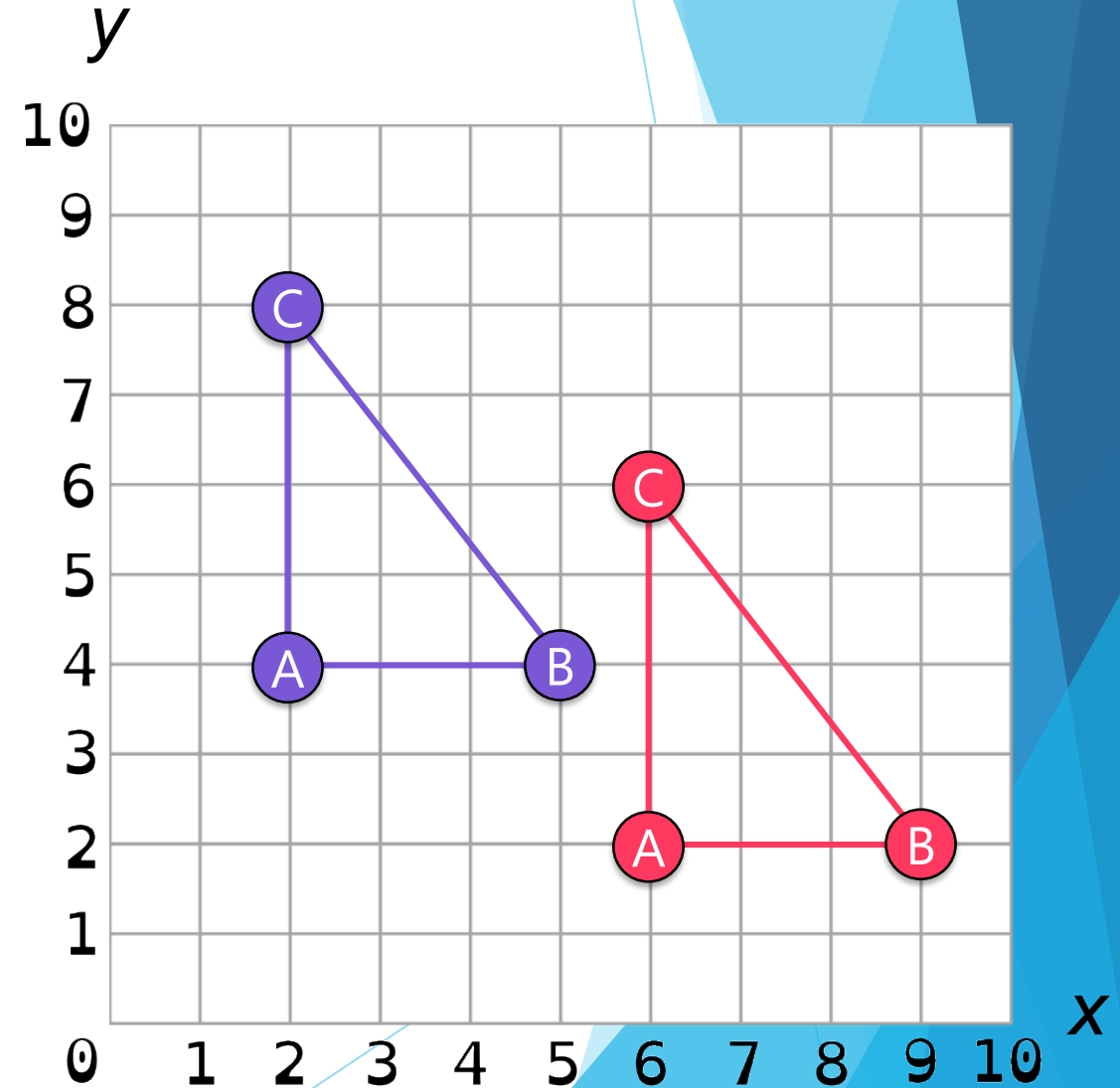
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

The translation is 4 right and 2 down.

original coordinates	translation's coordinates
A (2,4)	A (6,2)
B (5,4)	B (9,2)
C (2,8)	C (6,6)



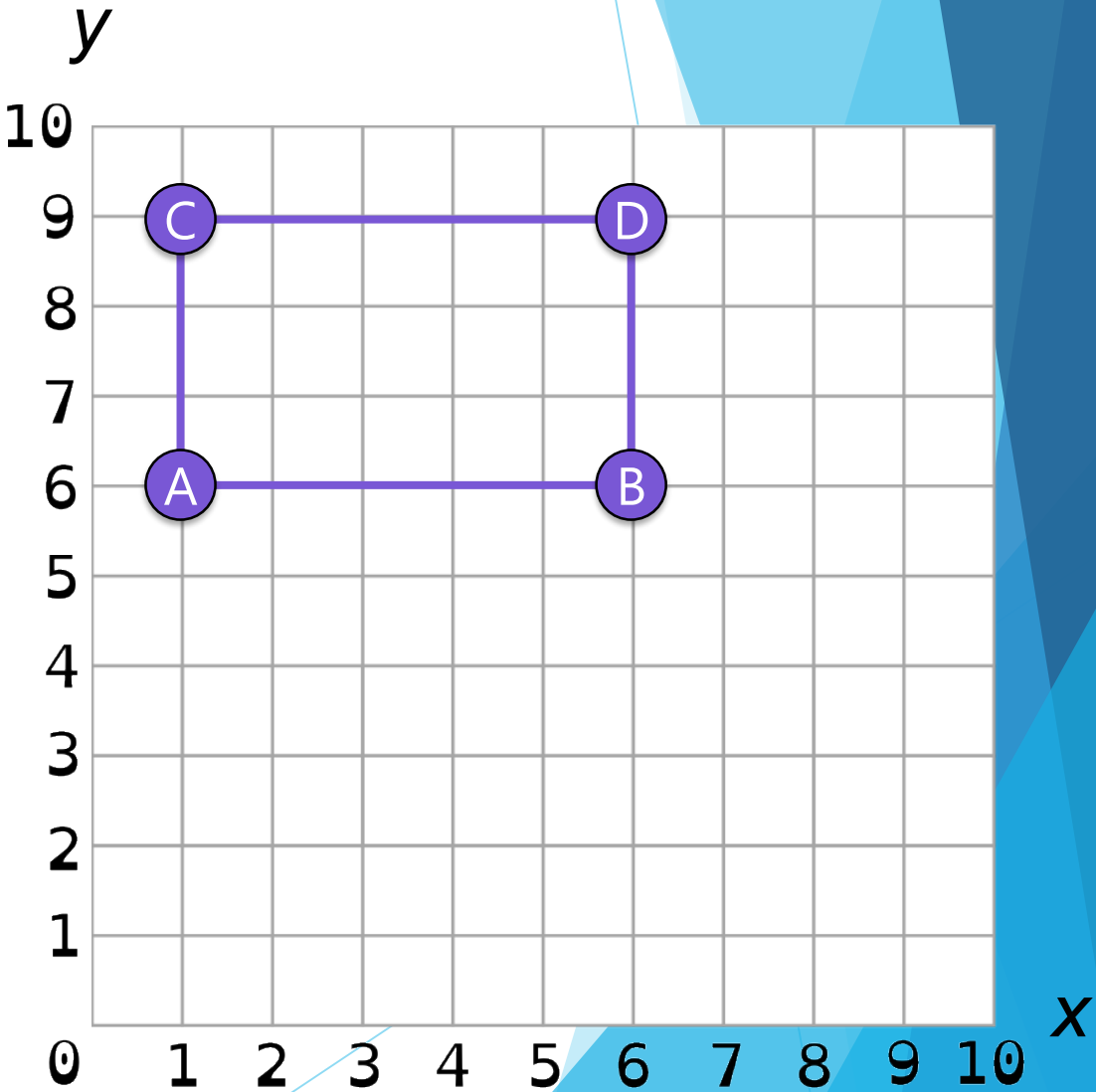
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
	B (5,2)



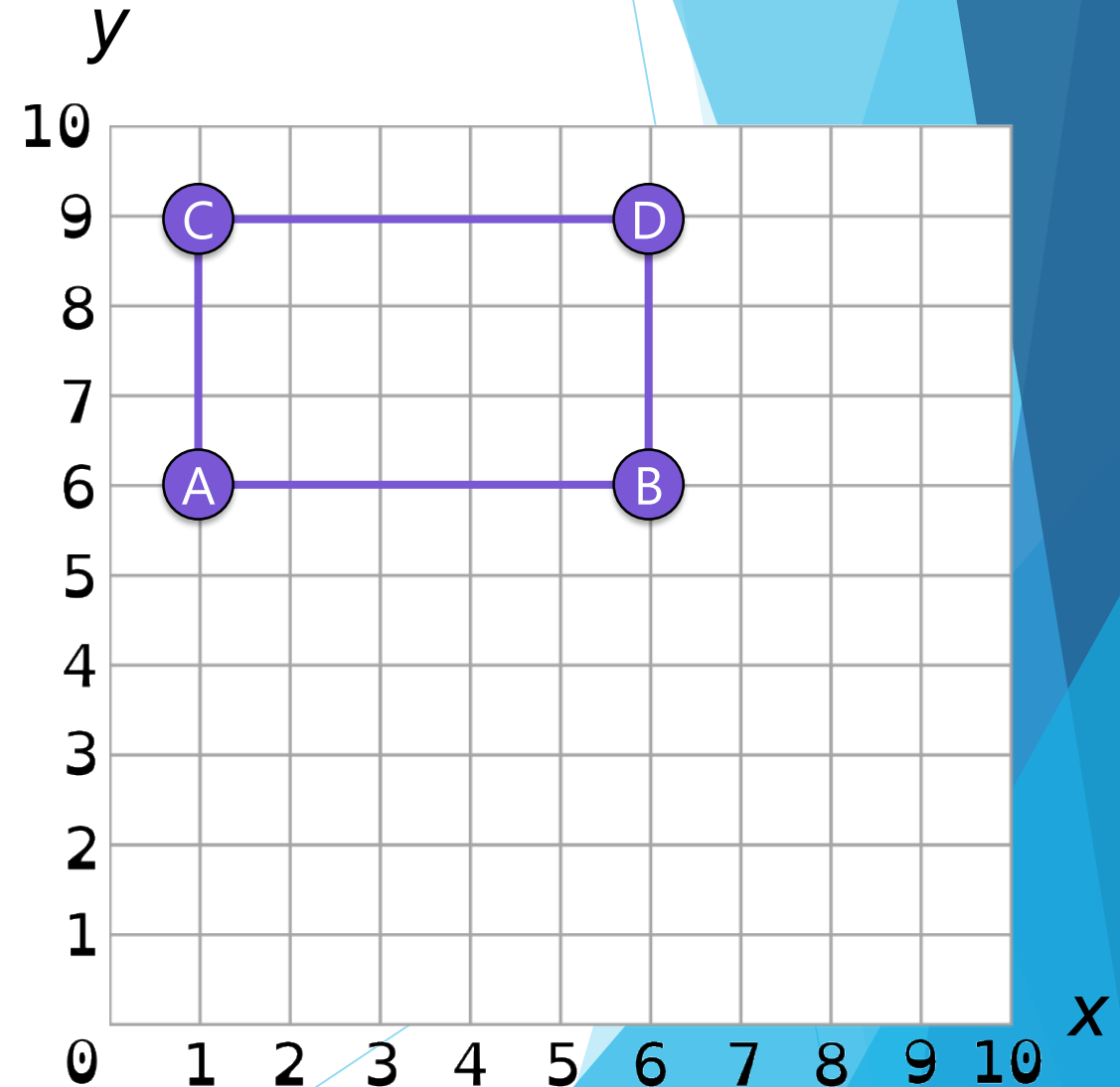
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (1,6)	
B (6,6)	B (5,2)
C (1,9)	
D (6,9)	



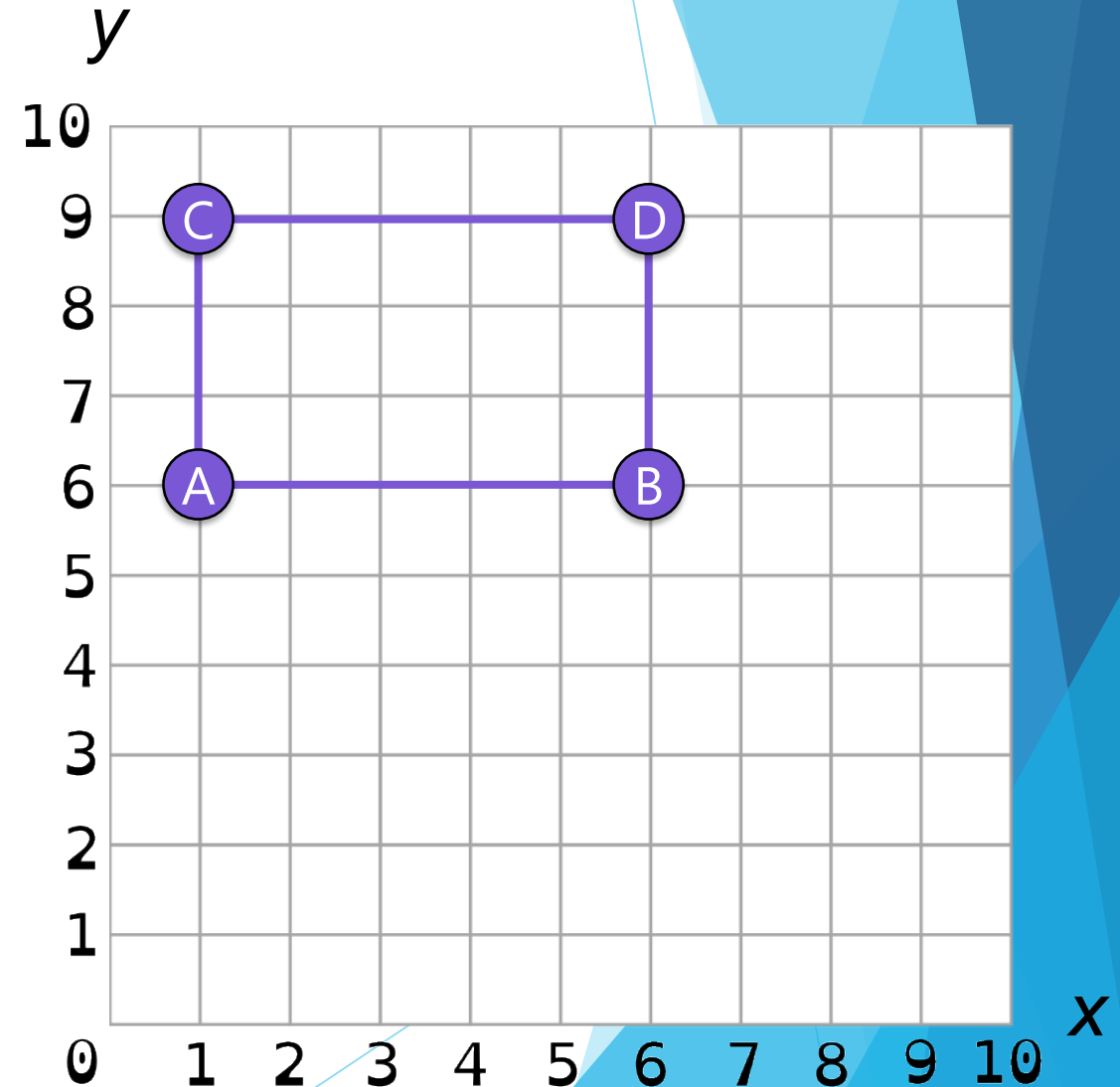
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (1,6)	A (0,2)
B (6,6)	B (5,2)
C (1,9)	C (0,5)
D (6,9)	D (5,5)



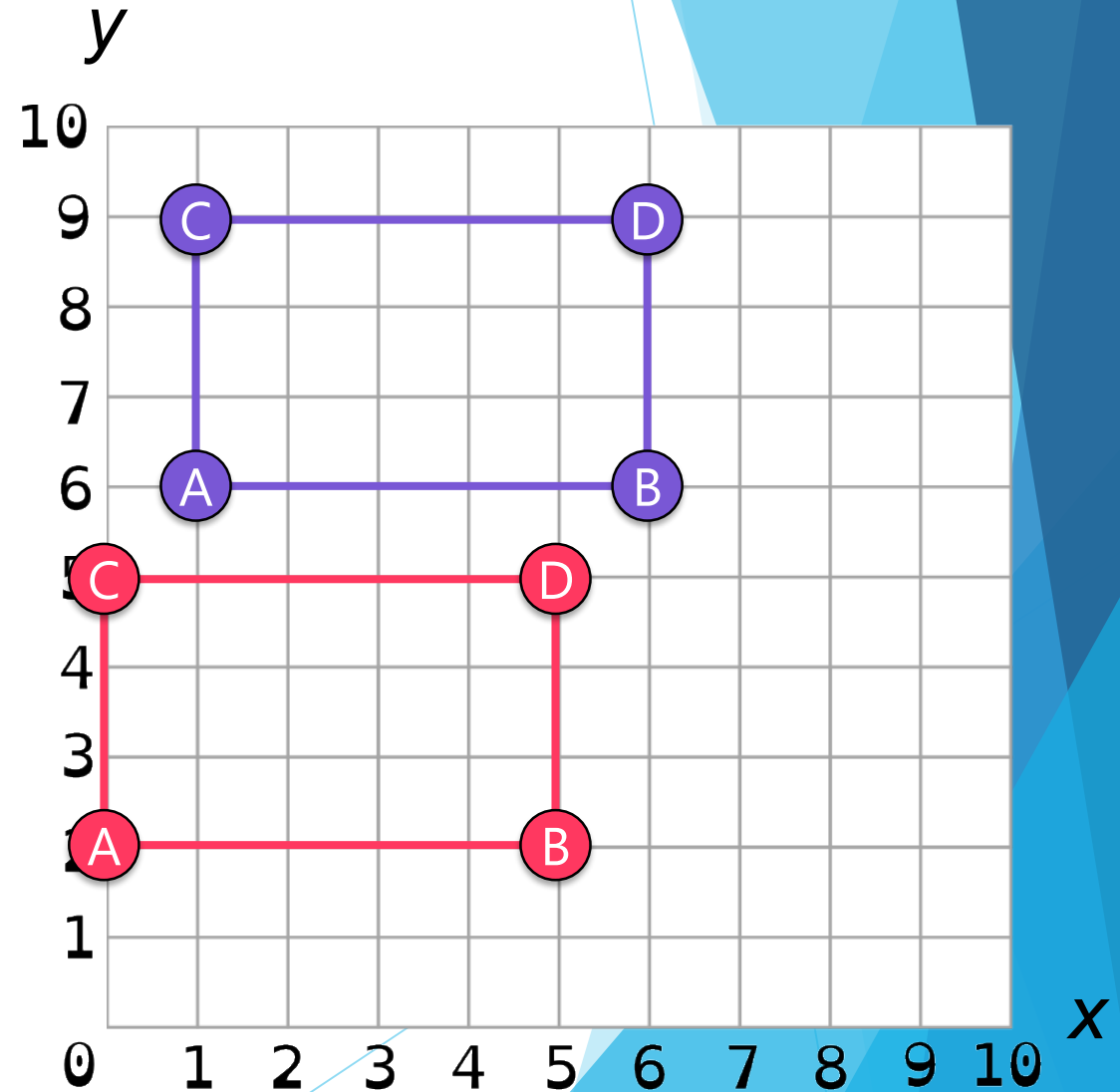
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (1,6)	A (0,2)
B (6,6)	B (5,2)
C (1,9)	C (0,5)
D (6,9)	D (5,5)



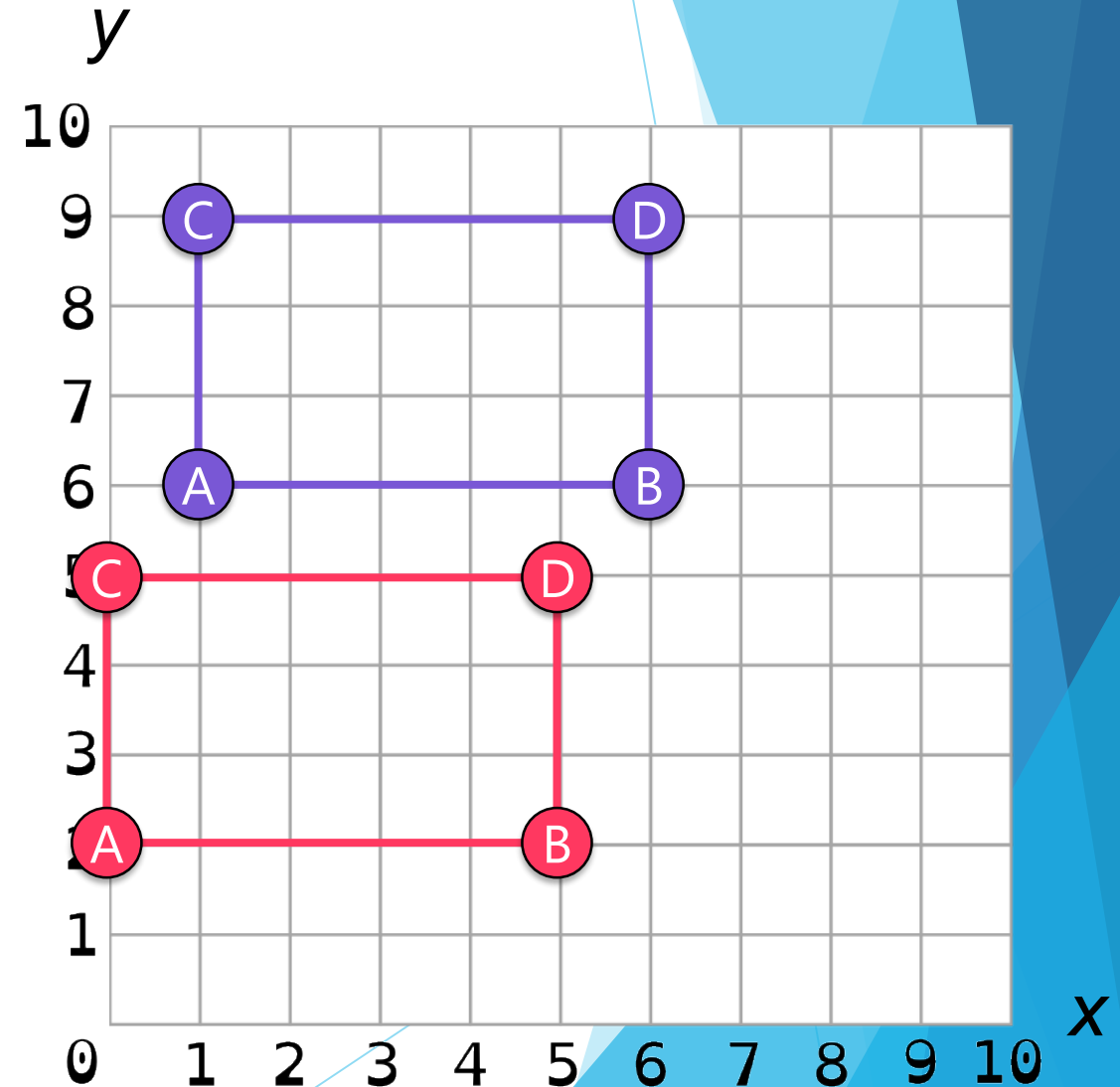
To be able to describe the movement of shapes and coordinates in the first quadrant

Talking Time:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

The translation is 1 left and 4 down.

original coordinates	translation's coordinates
A (1,6)	A (0,2)
B (6,6)	B (5,2)
C (1,9)	C (0,5)
D (6,9)	D (5,5)



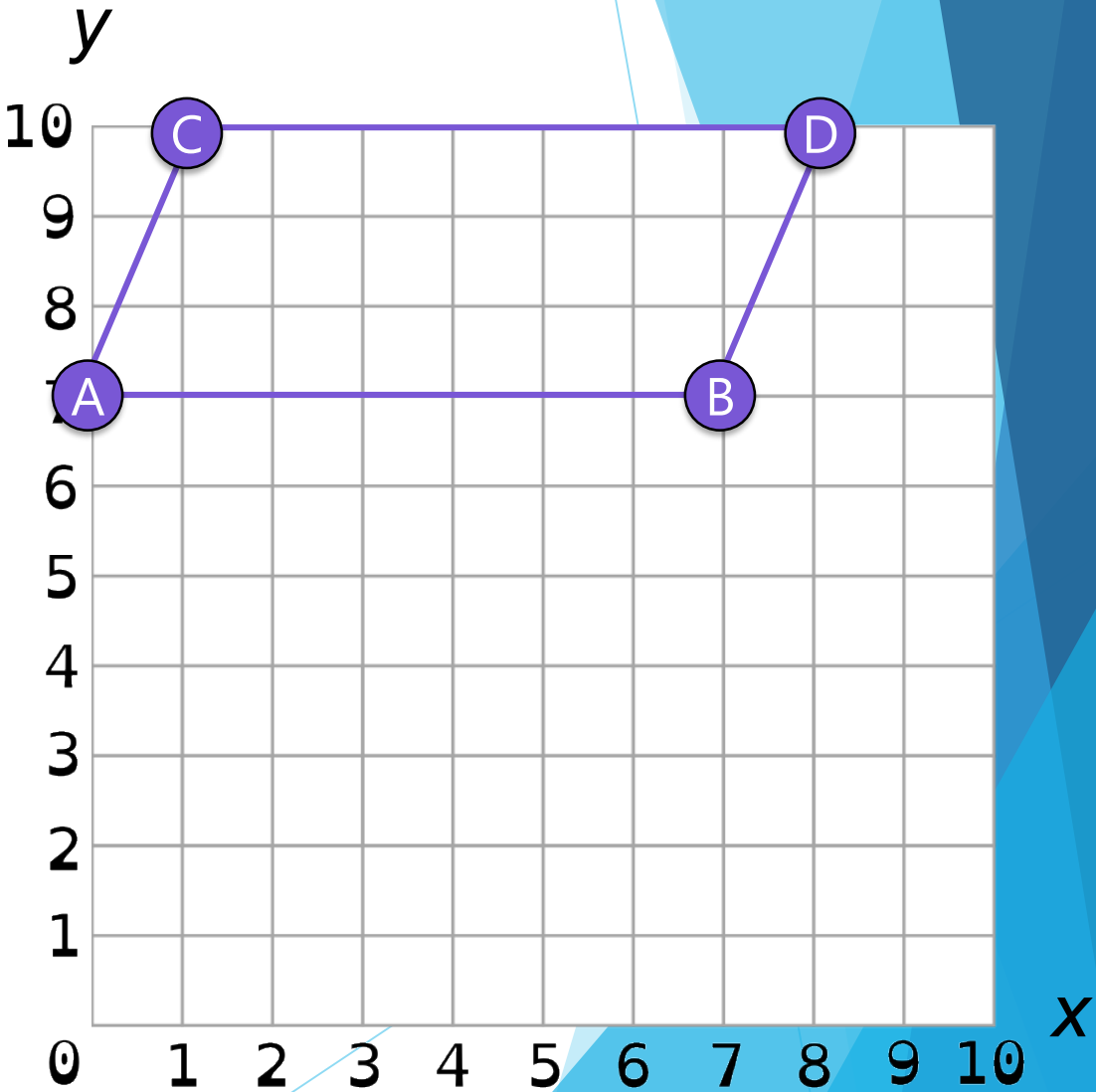
To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 4:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
	B (9,1)



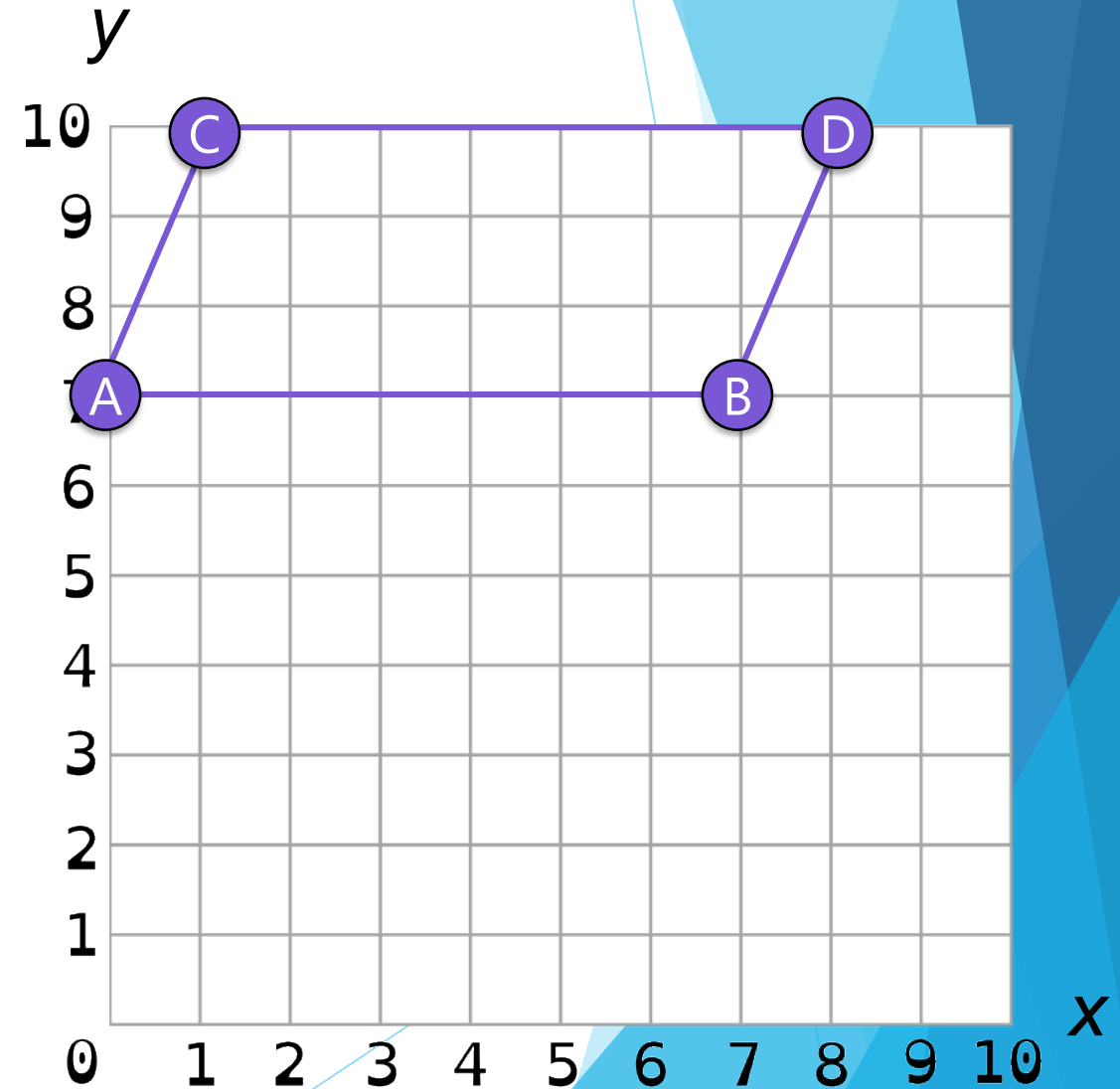
To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 4:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (0,7)	
B (7,7)	B (9,1)
C (1,10)	
D (8,10)	



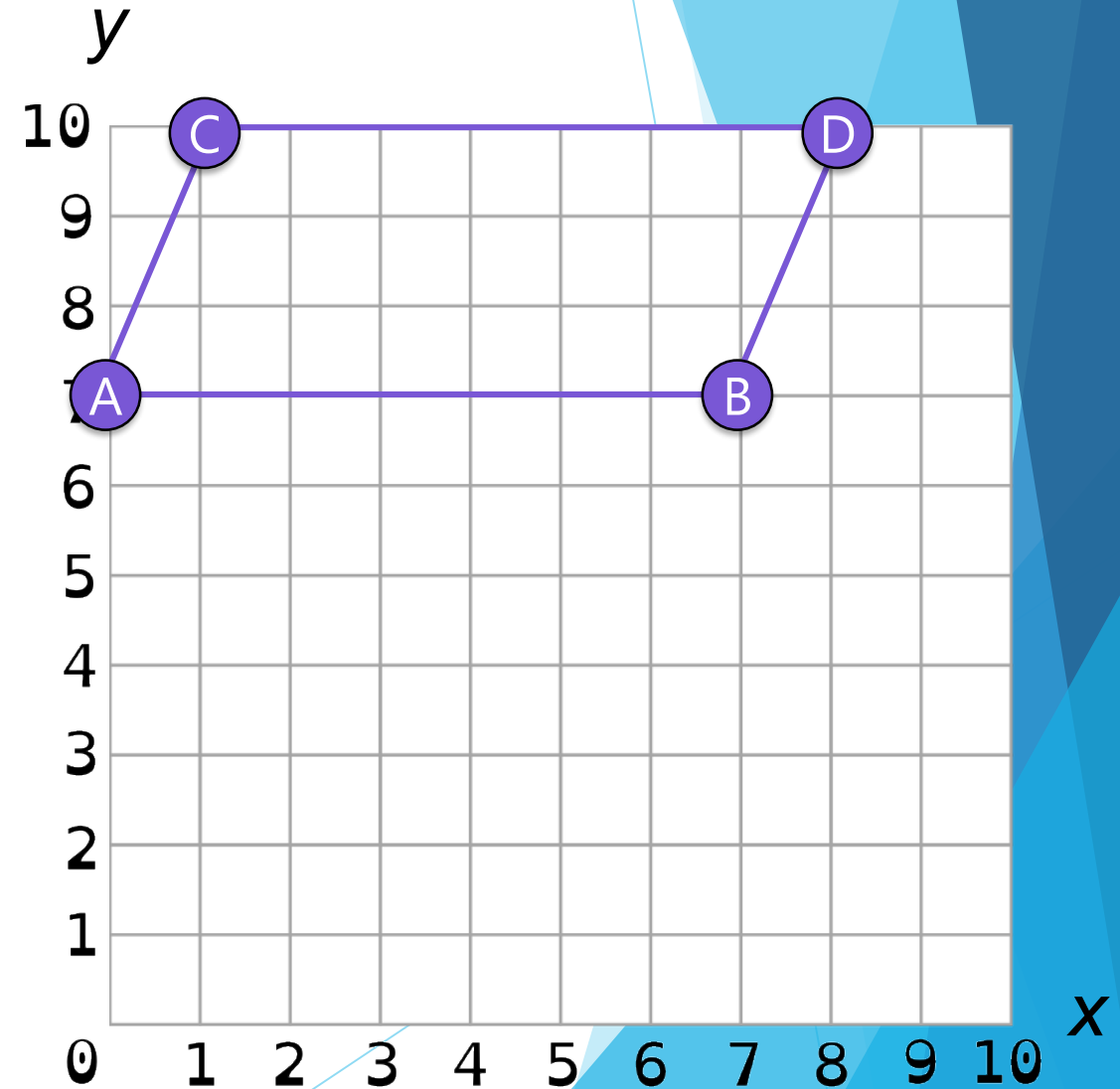
To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 4:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (0,7)	A (2,1)
B (7,7)	B (9,1)
C (1,10)	C (3,4)
D (8,10)	D (10,4)



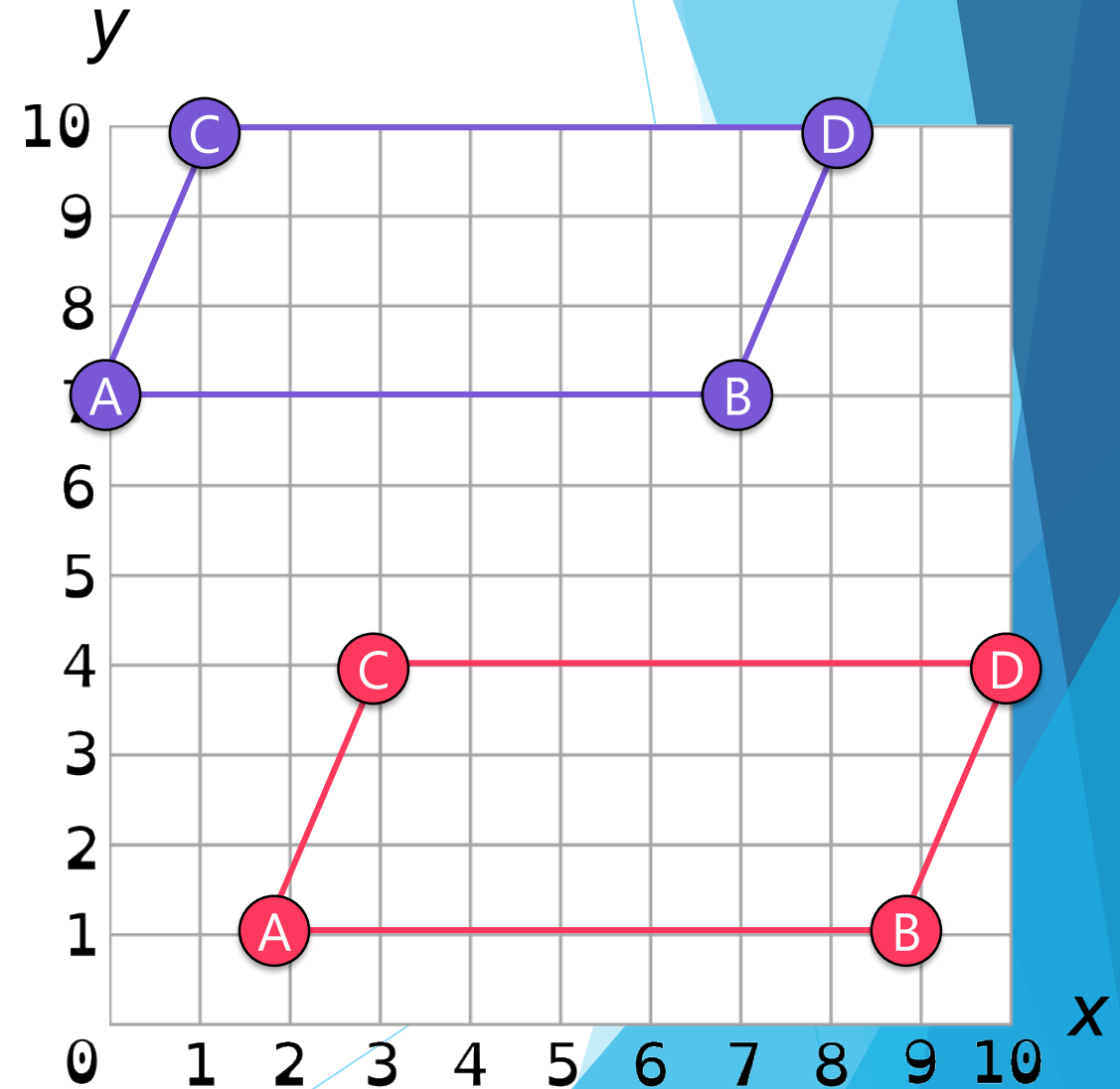
To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 4:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

Give the instruction. Then, complete the table. Draw the translated shape.

original coordinates	translation's coordinates
A (0,7)	A (2,1)
B (7,7)	B (9,1)
C (1,10)	C (3,4)
D (8,10)	D (10,4)



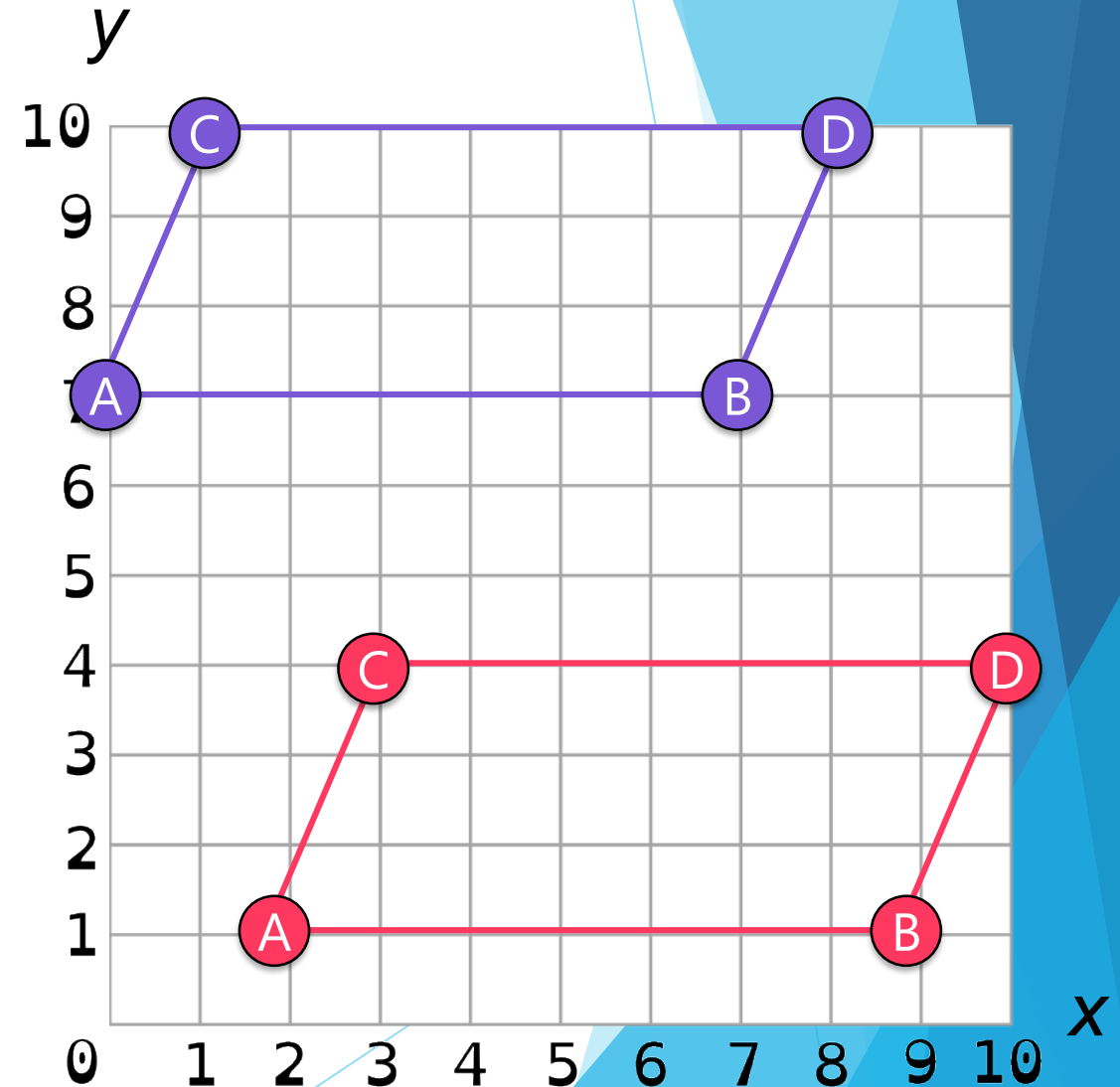
To be able to describe the movement of shapes and coordinates in the first quadrant

Activity 4:

Each of the shape's coordinates are translated using the same direction suggested by the given coordinates.

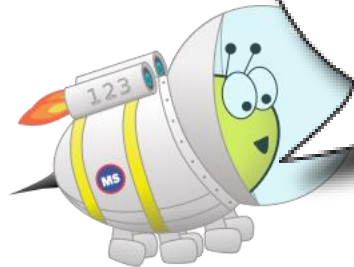
The translation is 2 right and 6 down.

original coordinates	translation's coordinates
A (0,7)	A (2,1)
B (7,7)	B (9,1)
C (1,10)	C (3,4)
D (8,10)	D (10,4)



To be able to describe the movement of shapes and coordinates in the first quadrant

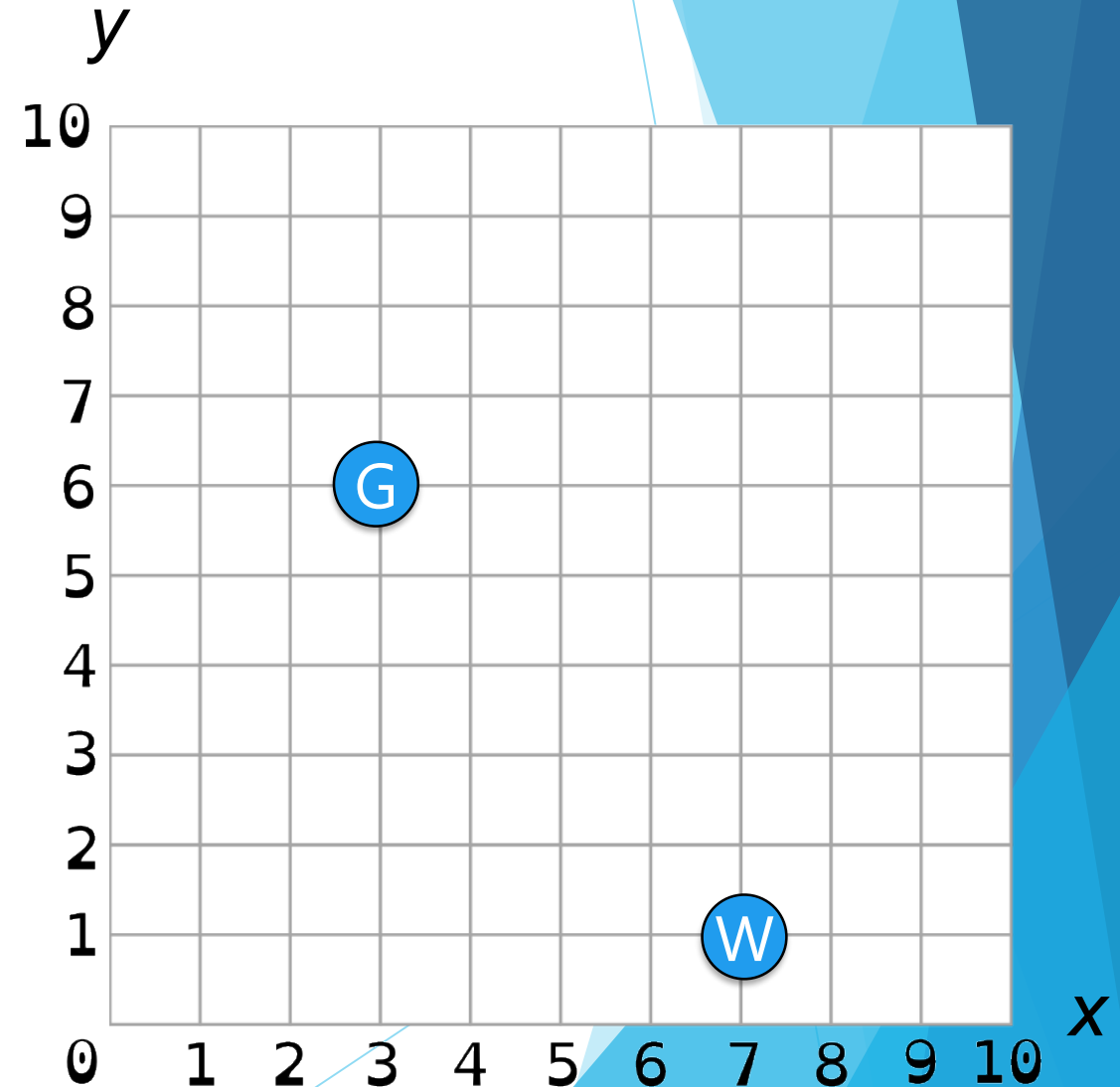
Evaluation:



I think Point G has been translated 4 right and 5 down to make Point W. Bumble thinks Point W has been translated 4 left and 5 up to make Point G.

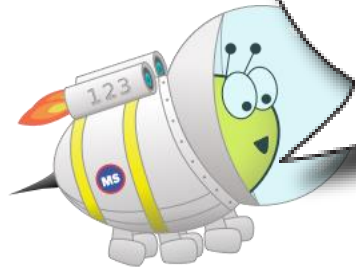
Who is correct?

Explain your answer.



To be able to describe the movement of shapes and coordinates in the first quadrant

Evaluation:



I think Point G has been translated 4 right and 5 down to make Point W. Bumble thinks Point W has been translated 4 left and 5 up to make Point G.

They are both correct translating from (3,6) to (7,1) or vice versa follows their directions, depending on which point is chosen to be translated to the other position.

