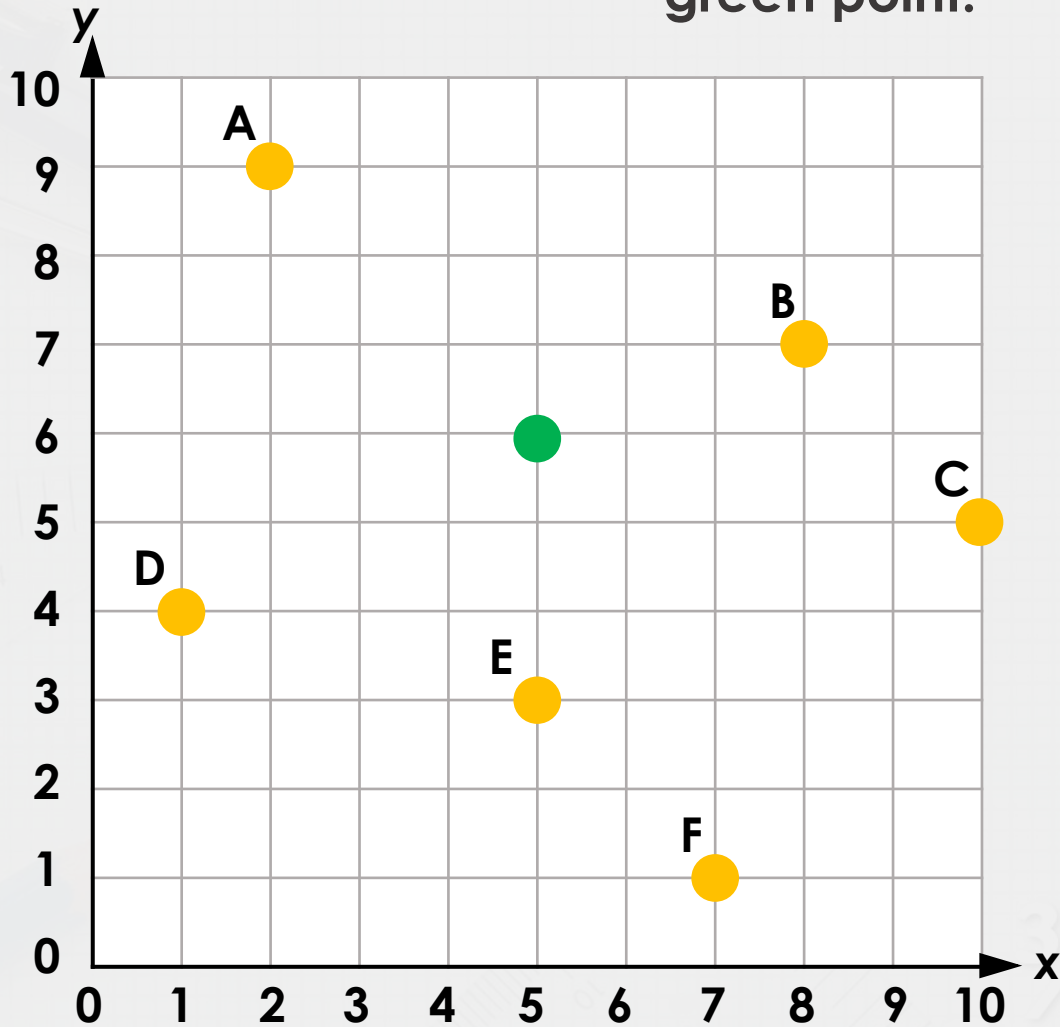# Step 4: Describe Movement
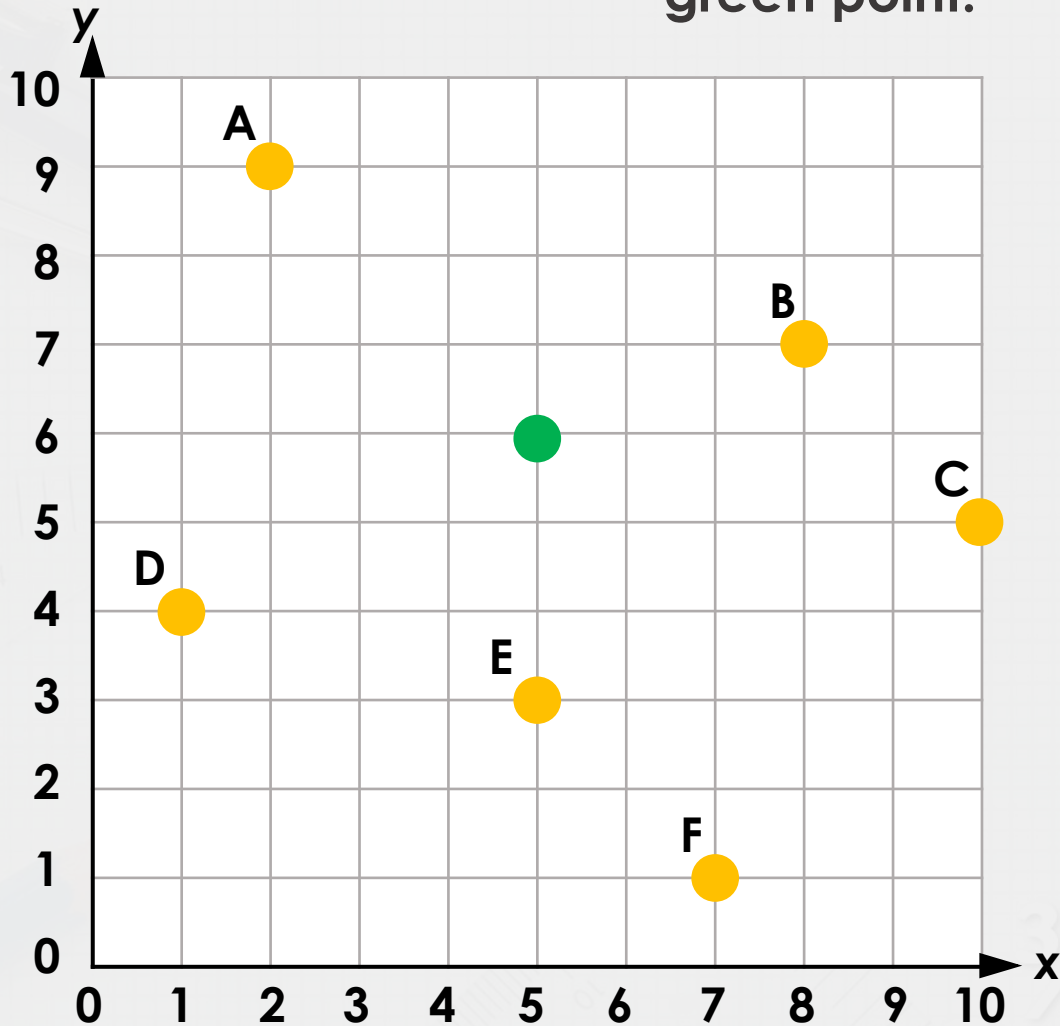
Describe how each of the orange points must move to get to the green point.

Describe how each of the orange points must move to get to the green point.

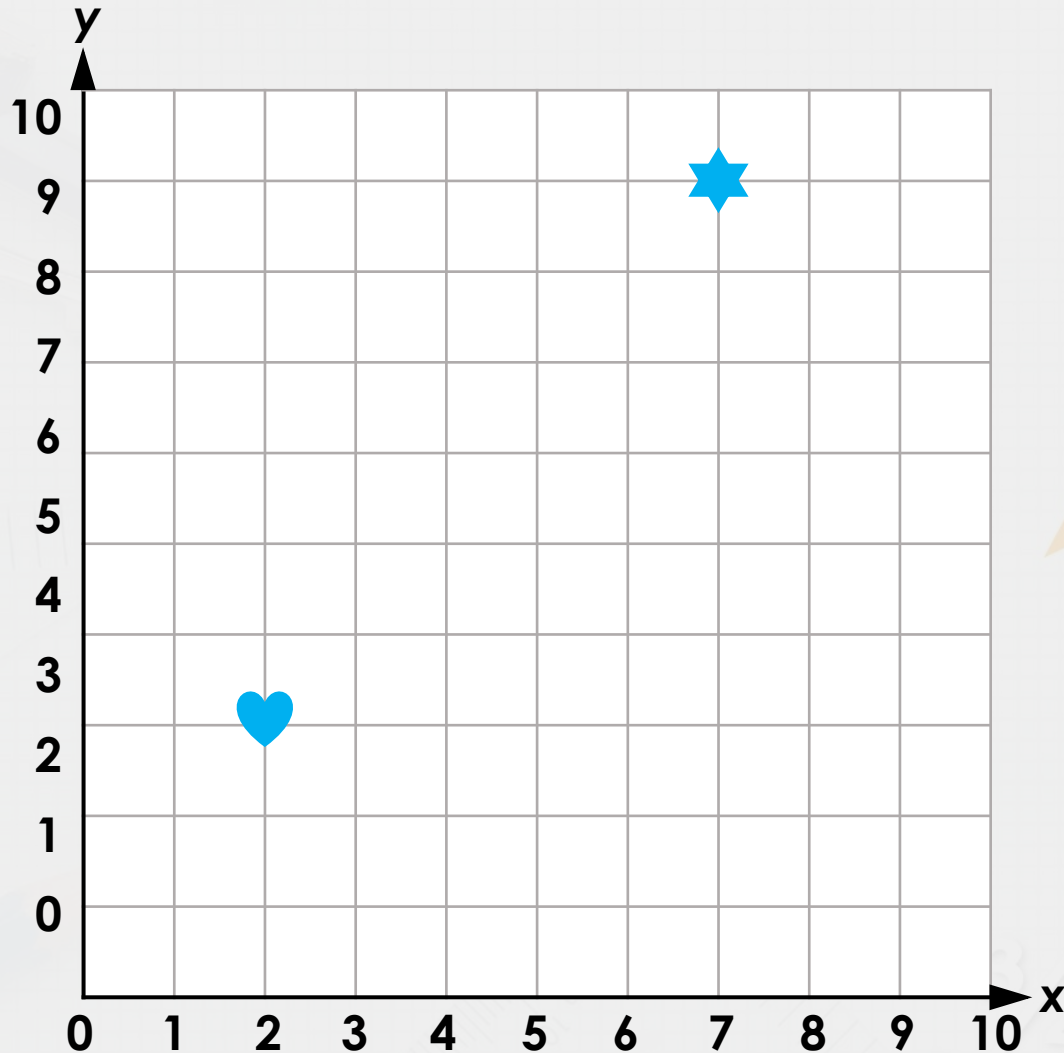A: 3 right and 3 down

B: 3 left and 1 down

C: 5 left and 1 up
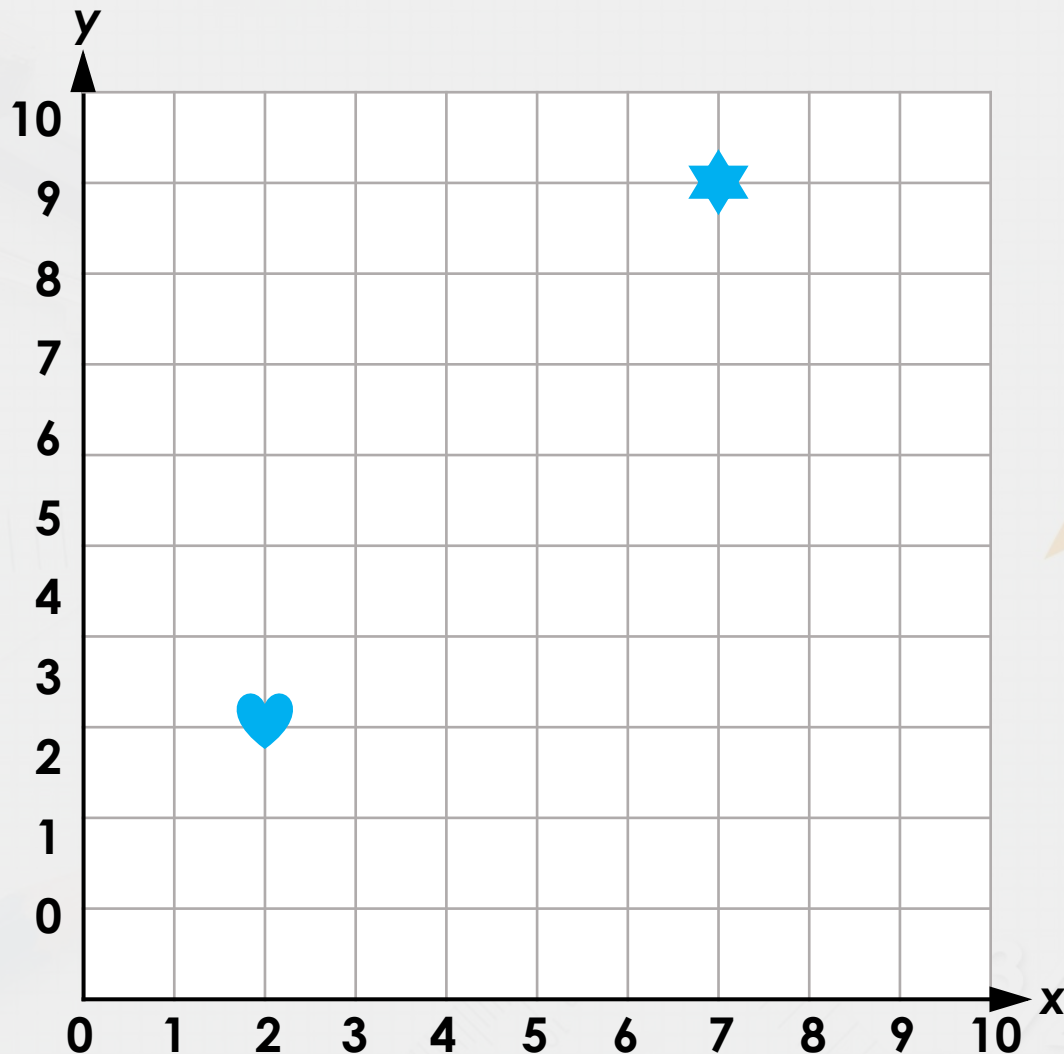
D: 4 right and 2 up

E: 3 up

F: 2 left and 5 up

Describe the movement needed for the heart to get to the star.

Describe the movement needed for the heart to get to the star.

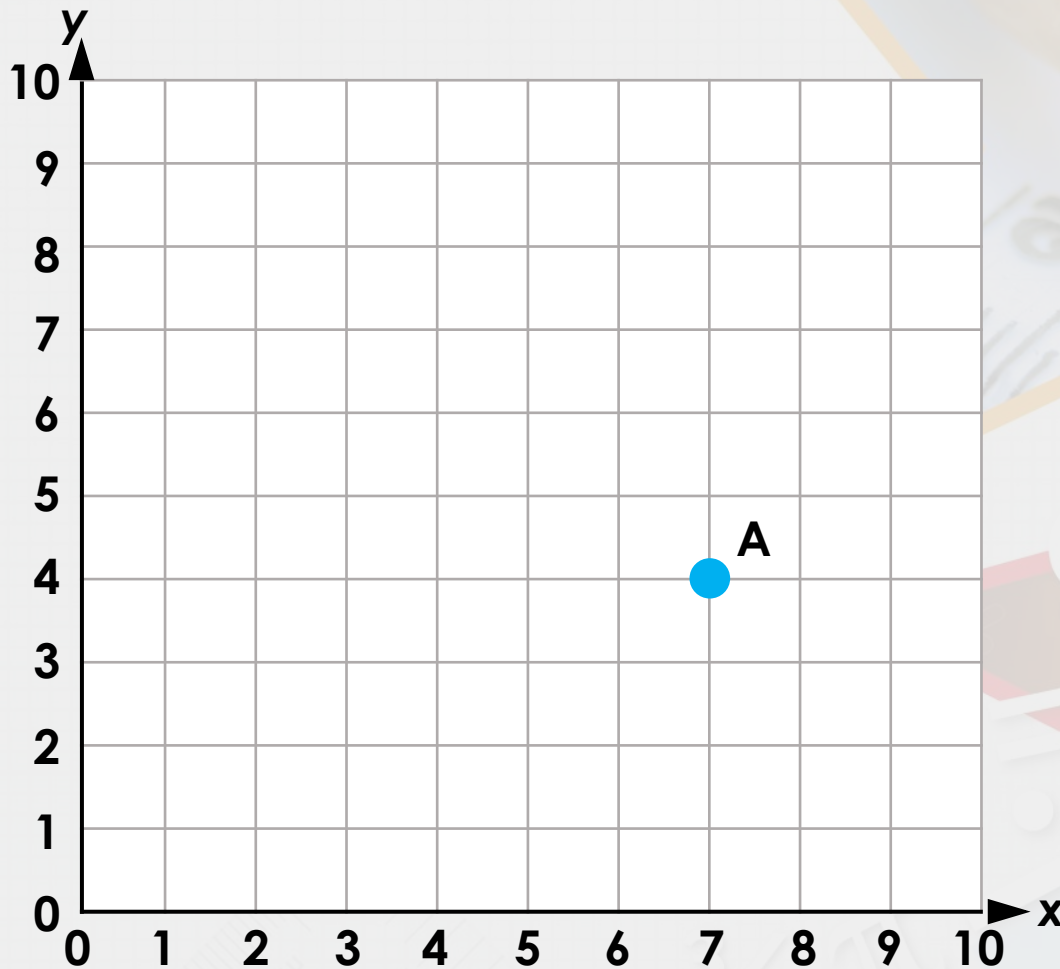**5 squares right and 6 squares up.**

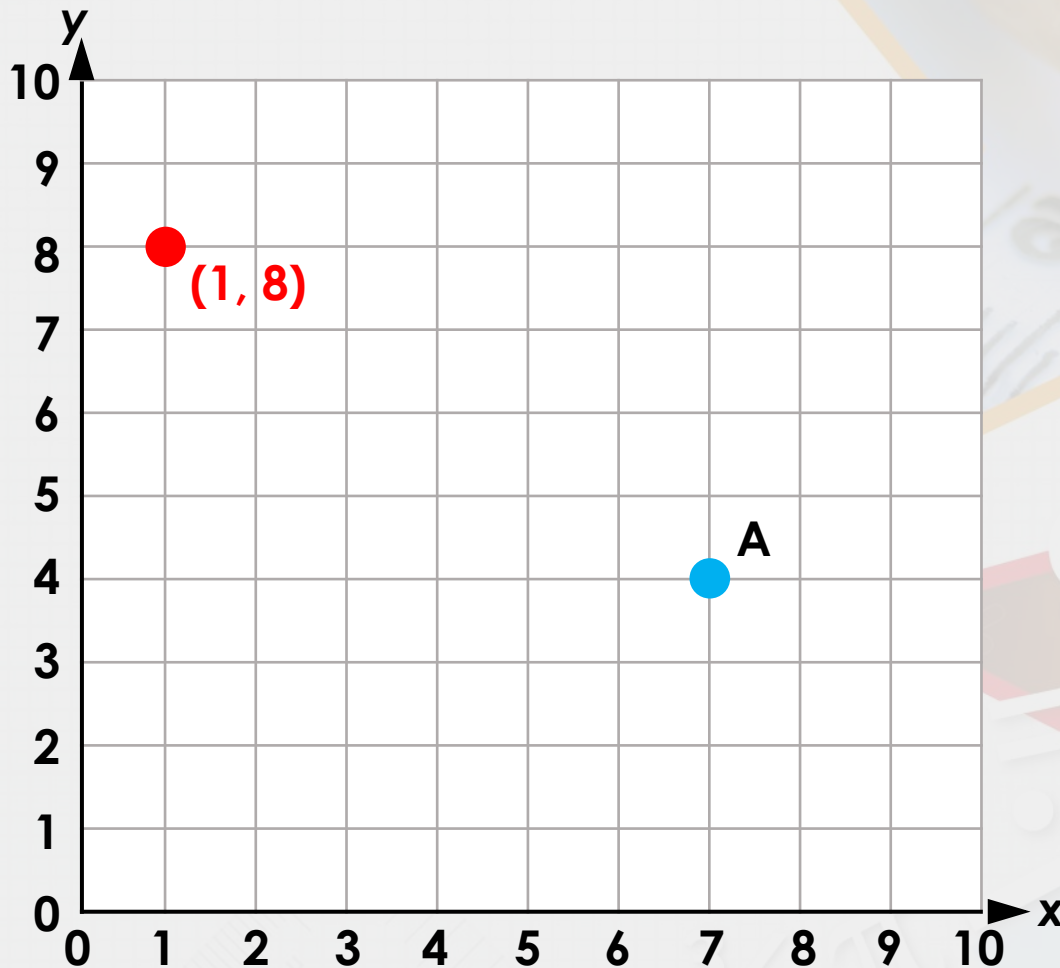**Translate point A 6 left and 4 up. What are the new coordinates?**

Translate point A 6 left and 4 up. What are the new coordinates?

A point is plotted on a grid at (5, 8).

It is translated 3 left and 4 down.

What are the new coordinates?

A point is plotted on a grid at (5, 8).

It is translated 3 left and 4 down.

What are the new coordinates?

(2, 4)

Rebecca has plotted a point on a grid at (2, 5).

It is translated to (9, 7).

How is it translated?
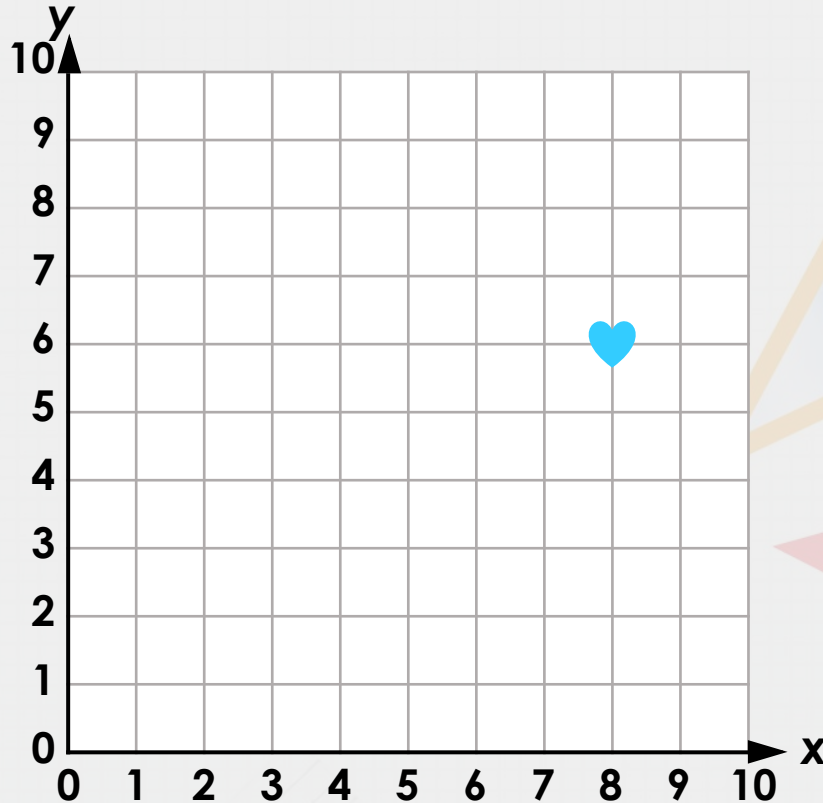
Rebecca has plotted a point on a grid at (2, 5).

It is translated to (9, 7).

How is it translated?

7 right and 2 up

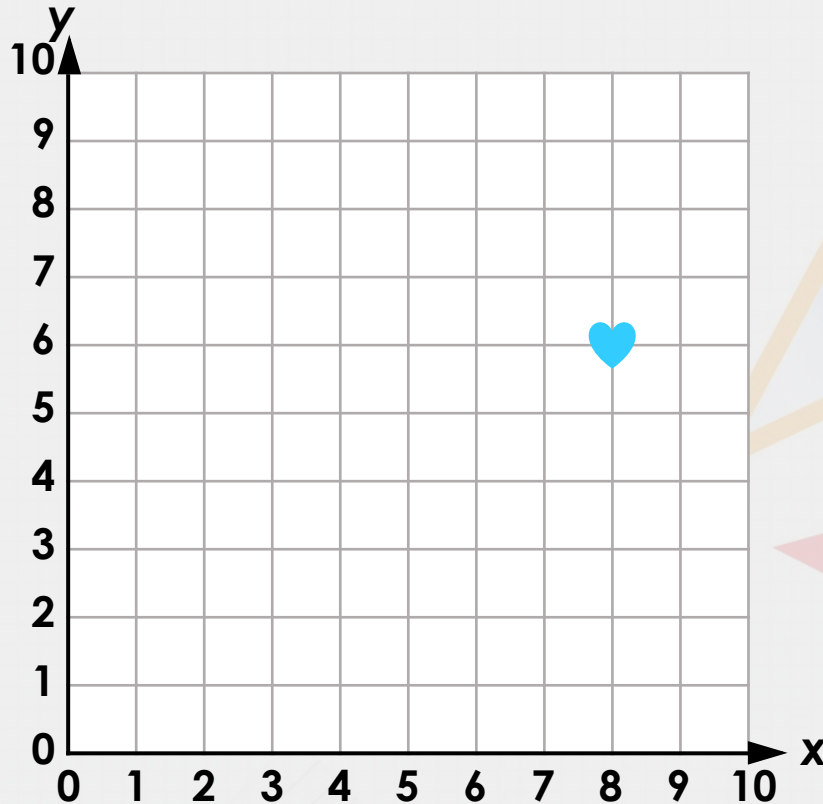**The heart has been translated. Its starting coordinates were (3, 9). Kate says it has moved 3 right and 4 down.**

Is she correct? Explain.

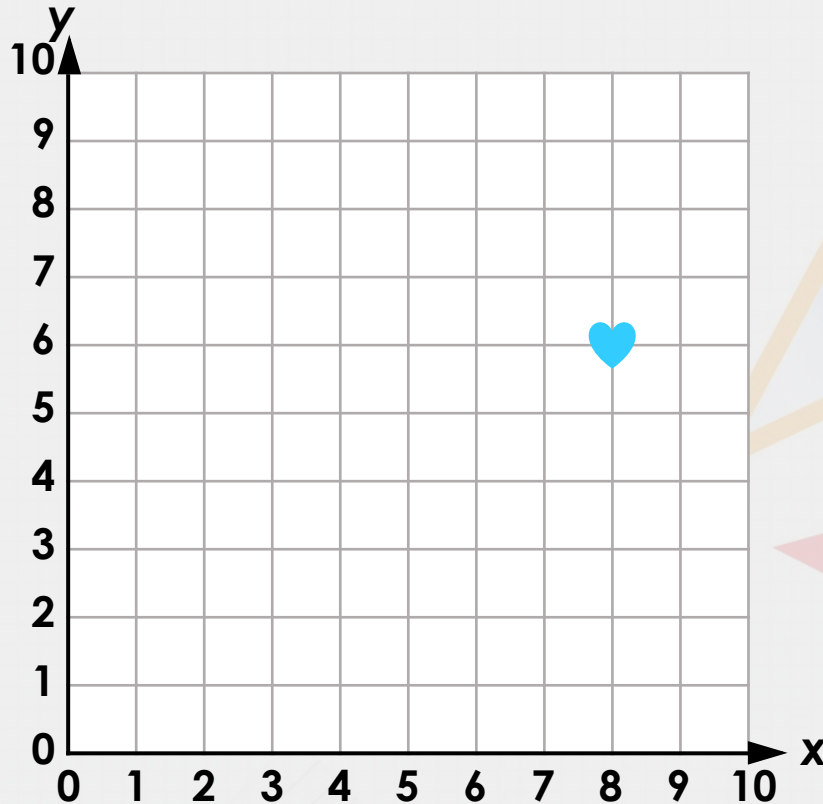**The heart has been translated. Its starting coordinates were (3, 9). Kate says it has moved 3 right and 4 down.**

Is she correct? Explain.
Kate is incorrect because…

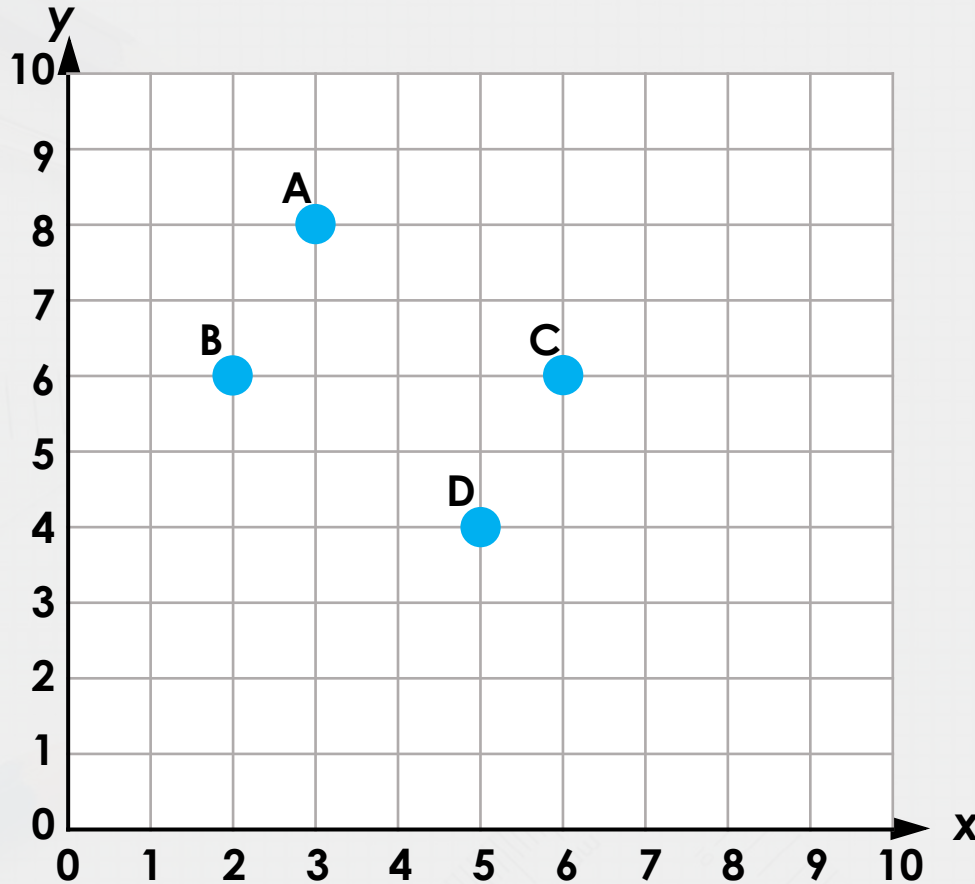**The heart has been translated. Its starting coordinates were (3, 9). Kate says it has moved 3 right and 4 down.**

Is she correct? Explain.
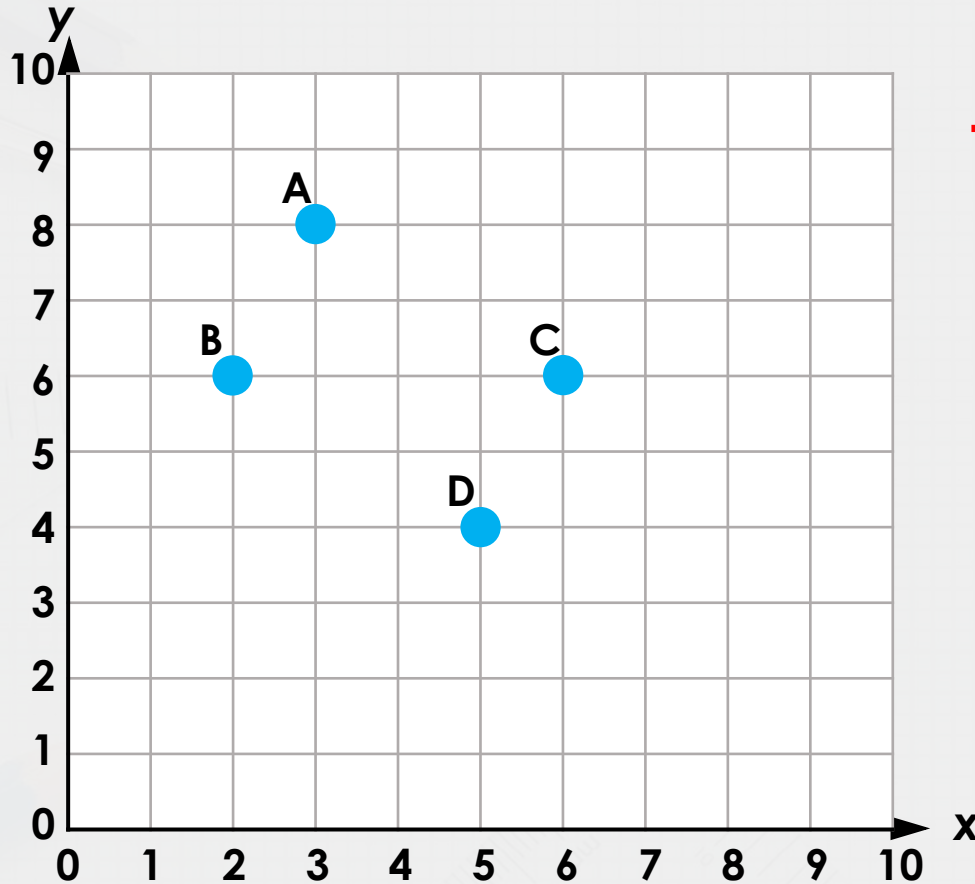**Kate is incorrect because the heart has moved 5 right and 3 down.**

Points A and B make exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.
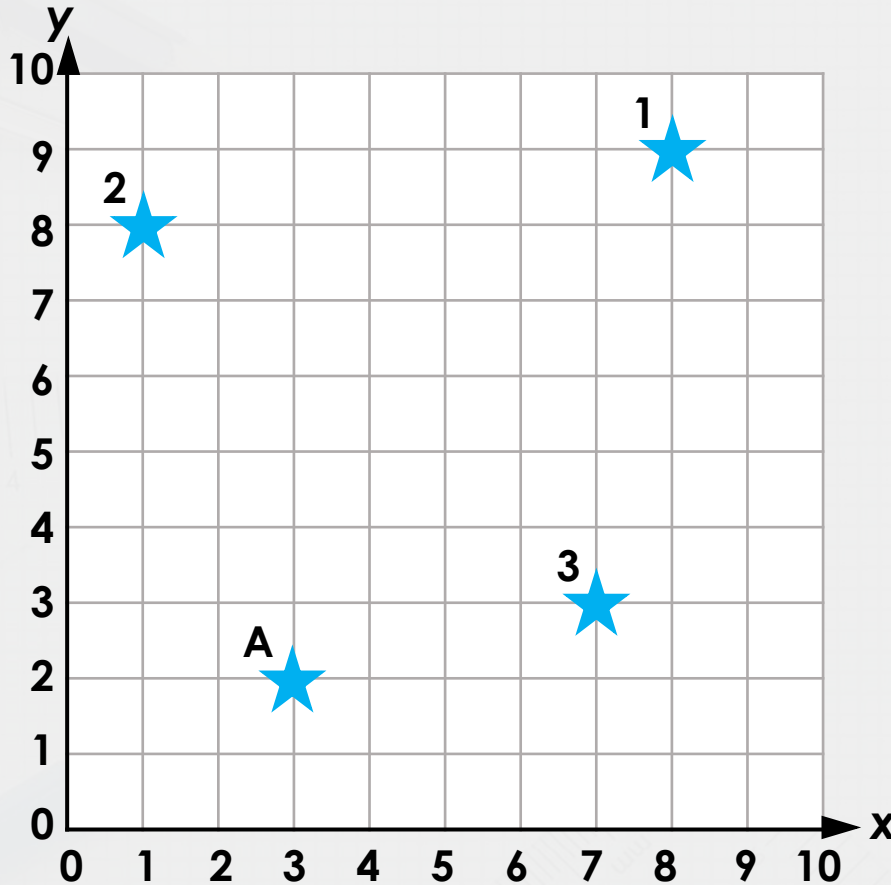
Points A and B make exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.

They have both moved 3 squares right and 2 squares down.

A (3, 8) has moved to C (6, 6).

B (2, 6) has moved to D (5, 4).

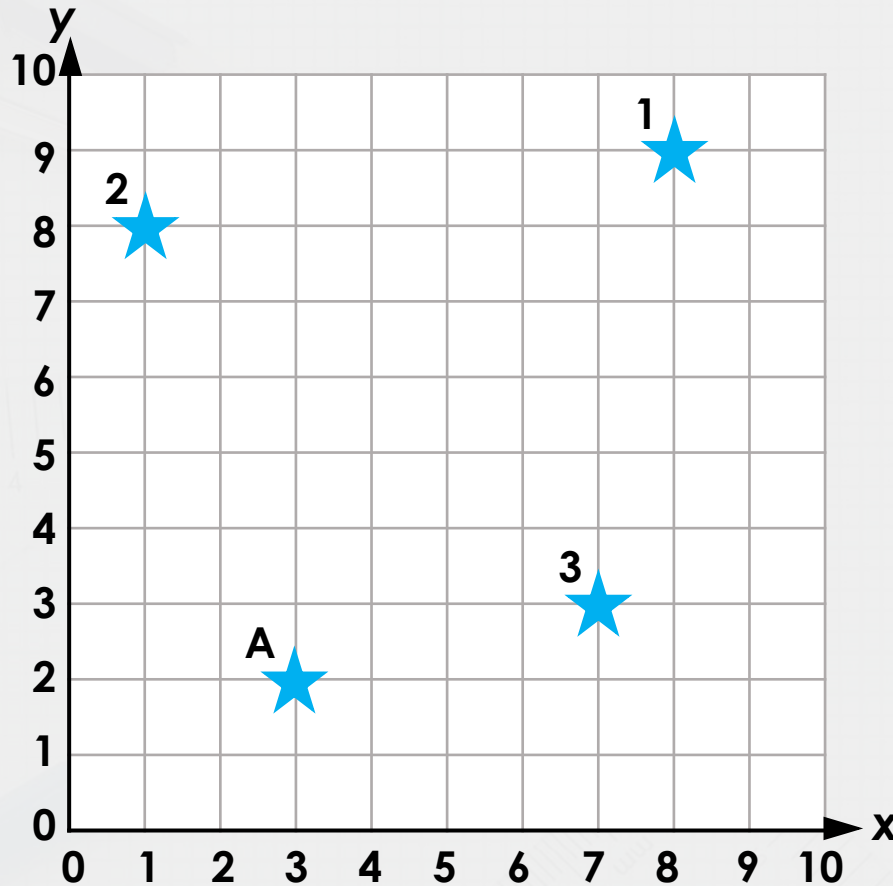**Star A has been translated three times. Match each numbered point to the correct translation statement.**

A. 2 left and 6 up

B. 4 right and 1 up

C. 5 right and 7 up

Star A has been translated three times. Match each numbered point to the correct translation statement.

2A. 2 left and 6 up

3B. 4 right and 1 up

1C. 5 right and 7 up