Year 6 – Autumn Block 4 – Position and Direction – Four Quadrants

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6P3) Describe positions on the full coordinate grid (all four quadrants)

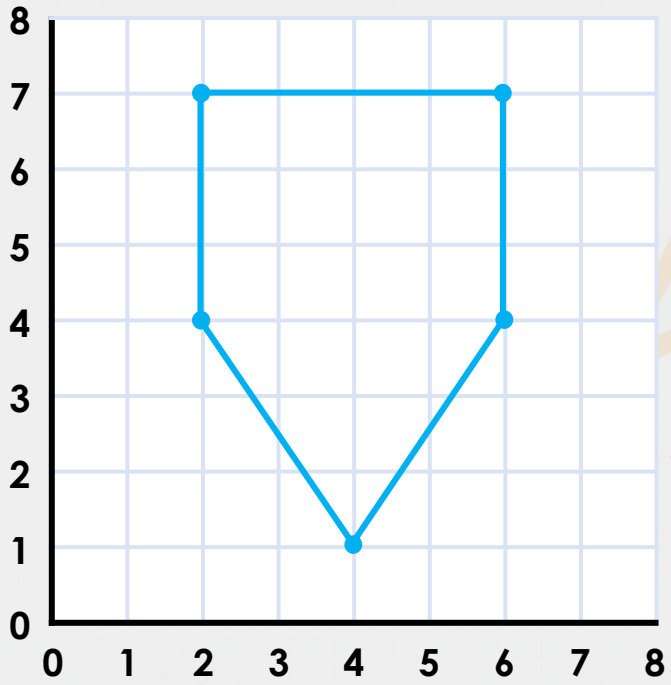
More Year 6 Position and Direction resources.

Did you like this resource? Don't forget to review it on our website.

Step 2: Four Quadrants

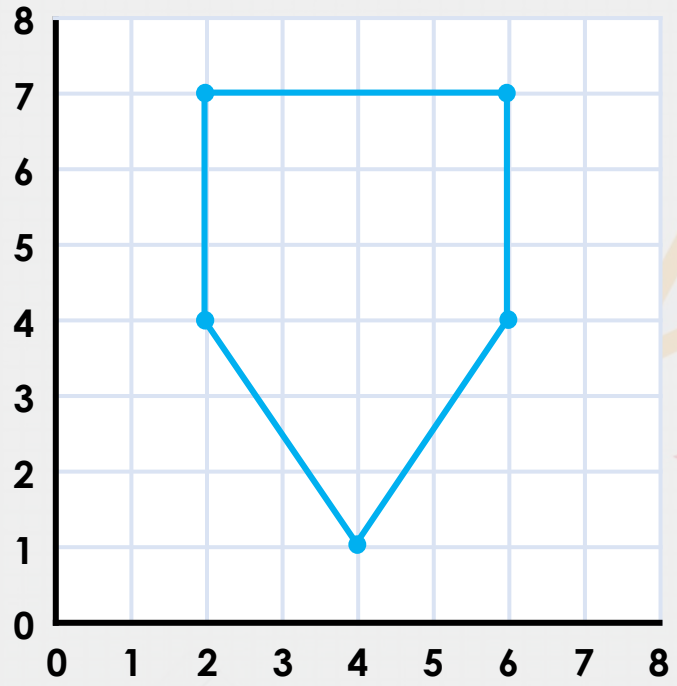
Introduction

What are the coordinates for this shape?



Introduction

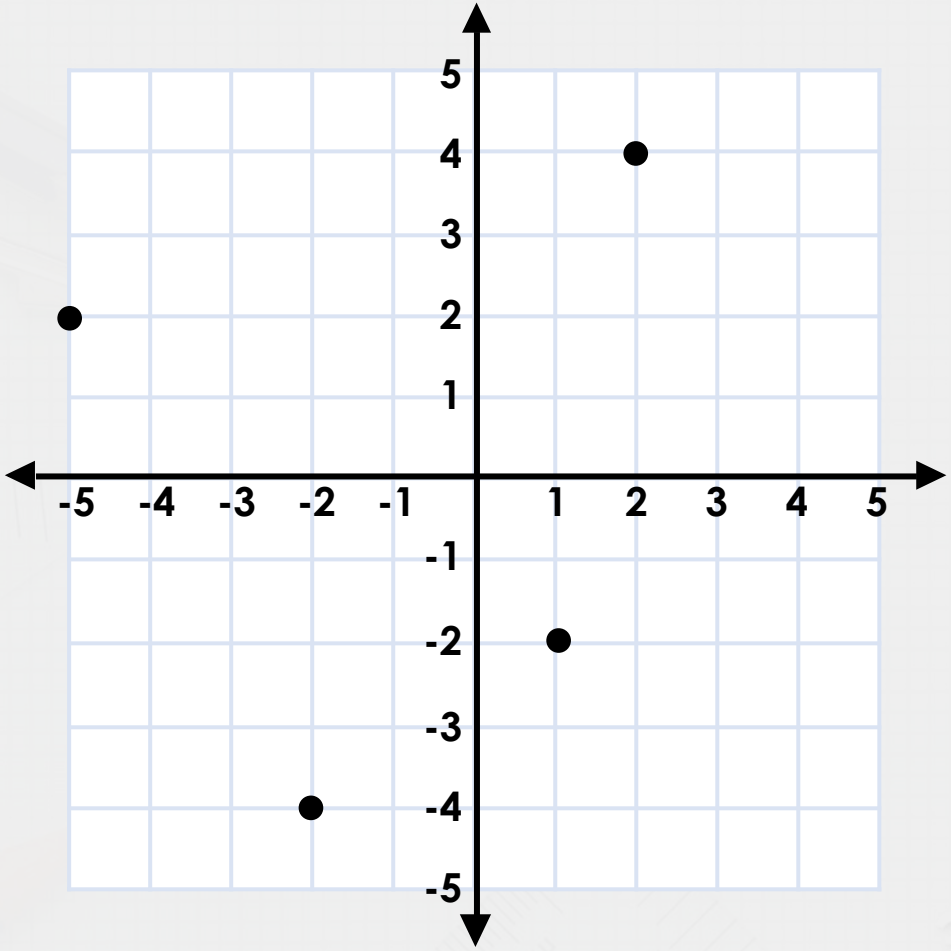
What are the coordinates for this shape?



(4,1), (2,4), (2,7), (6,7), (6,4)

Varied Fluency 1

Match the coordinates to the points on the grid.



(1, -2)

(-5, 2)

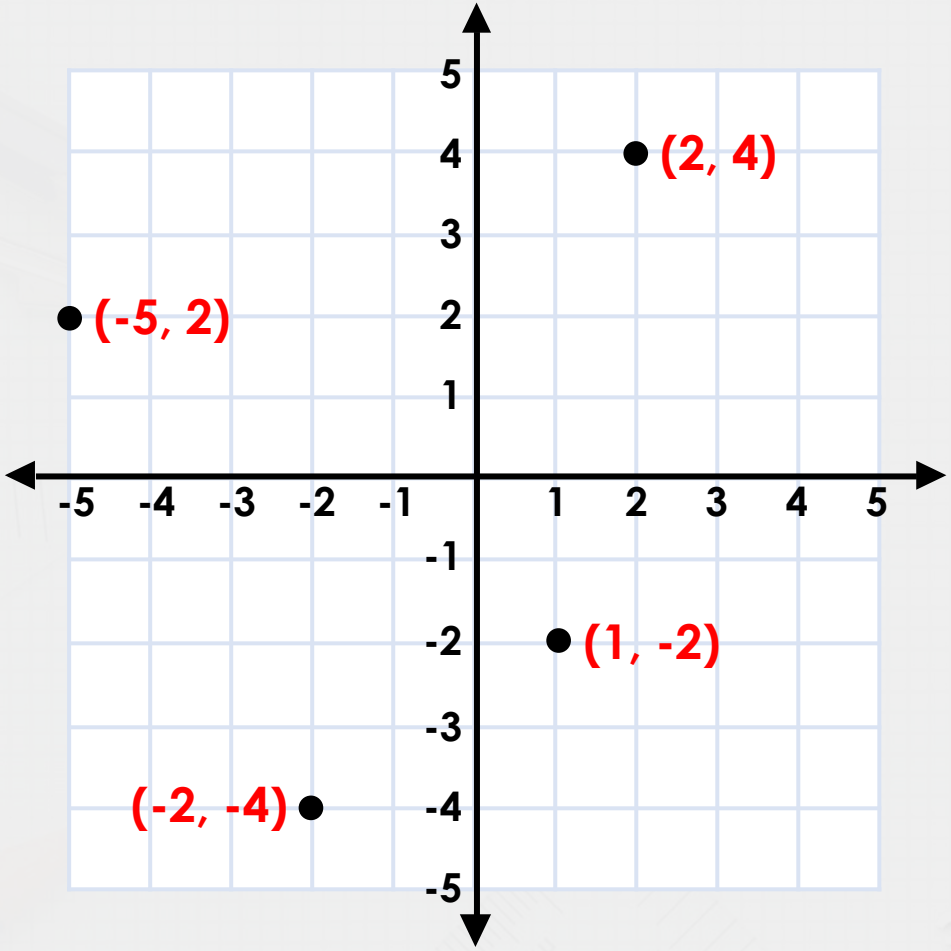
(-2, -4)

(-2, 1)

(2, 4)

Varied Fluency 1

Match the coordinates to the points on the grid.



(1, -2)

(-5, 2)

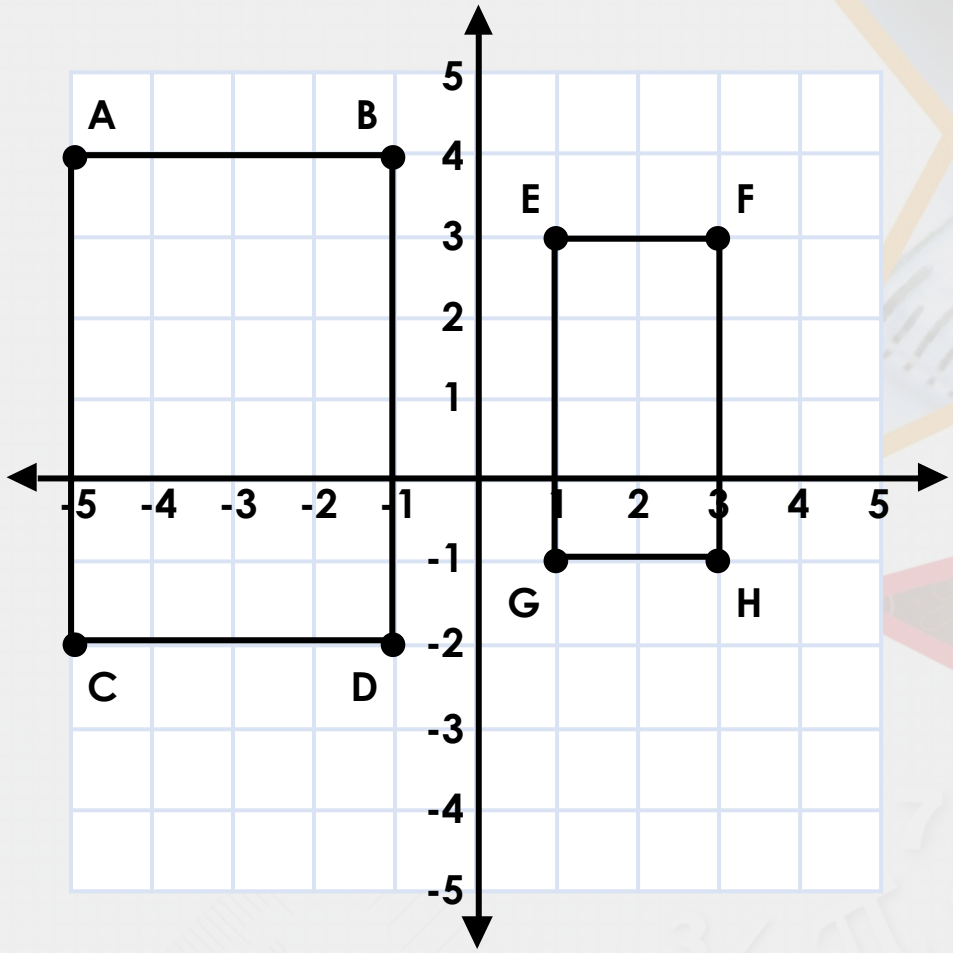
(-2, -4)

(-2, 1)

(2, 4)

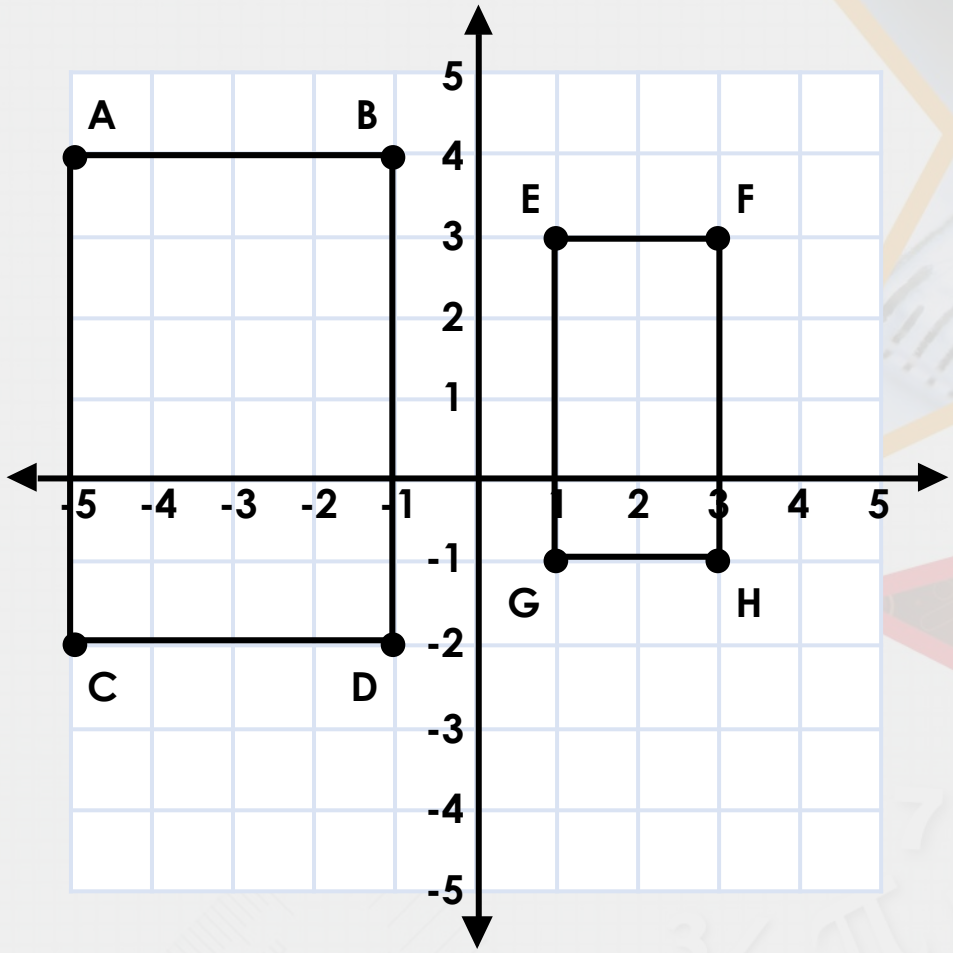
Varied Fluency 2

Write the coordinates of each shape.



Varied Fluency 2

Write the coordinates of each shape.



A (-5, 4)

B (-1, 4)

C (-5, -2)

D (-1, -2)

E (1, 3)

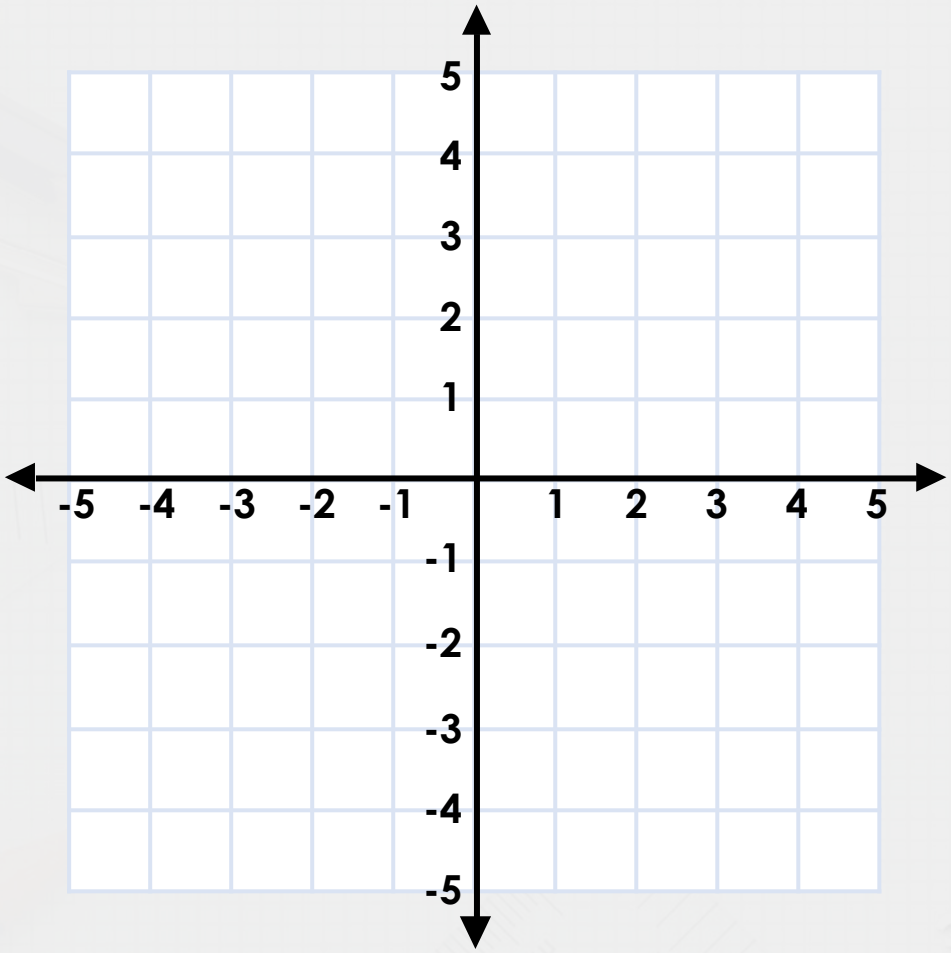
F (3, 3)

G (1, -1)

H (3, -1)

Varied Fluency 3

Plot the coordinates and label them with their corresponding letter.



A. (0, 3)

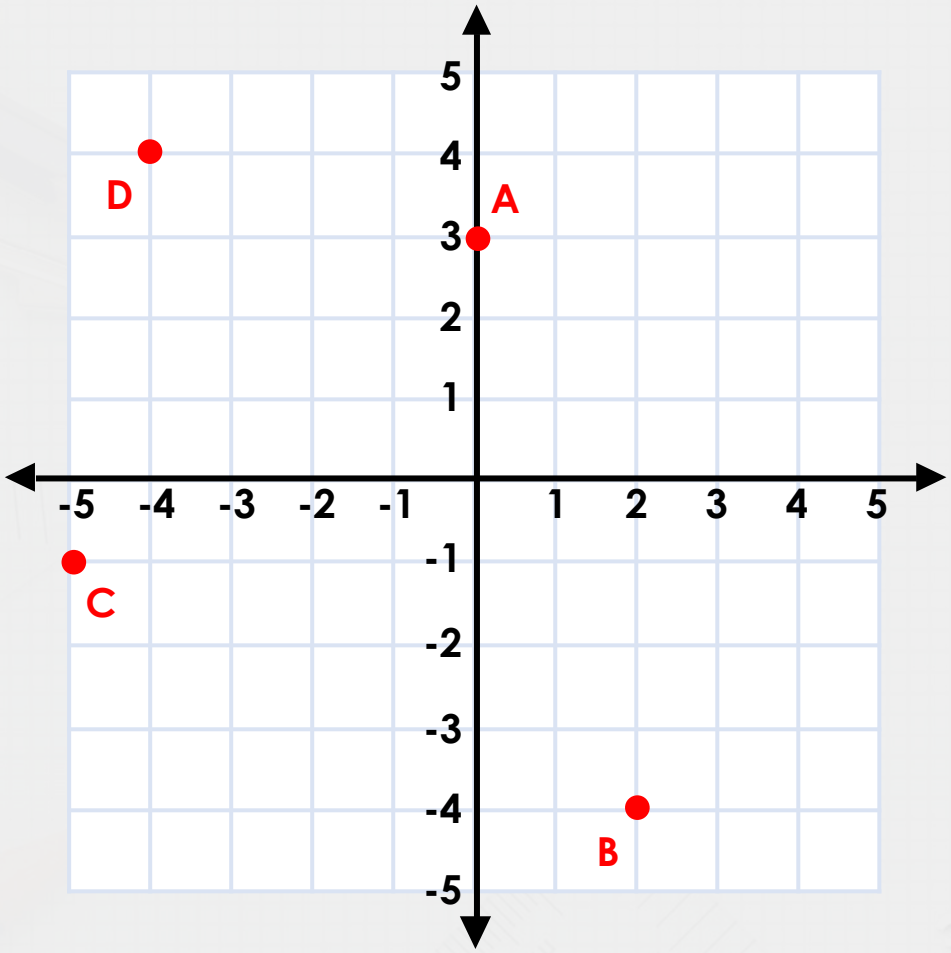
B. (2, -4)

C. (-5, -1)

D. (-4, 4)

Varied Fluency 3

Plot the coordinates and label them with their corresponding letter.



A. (0, 3)

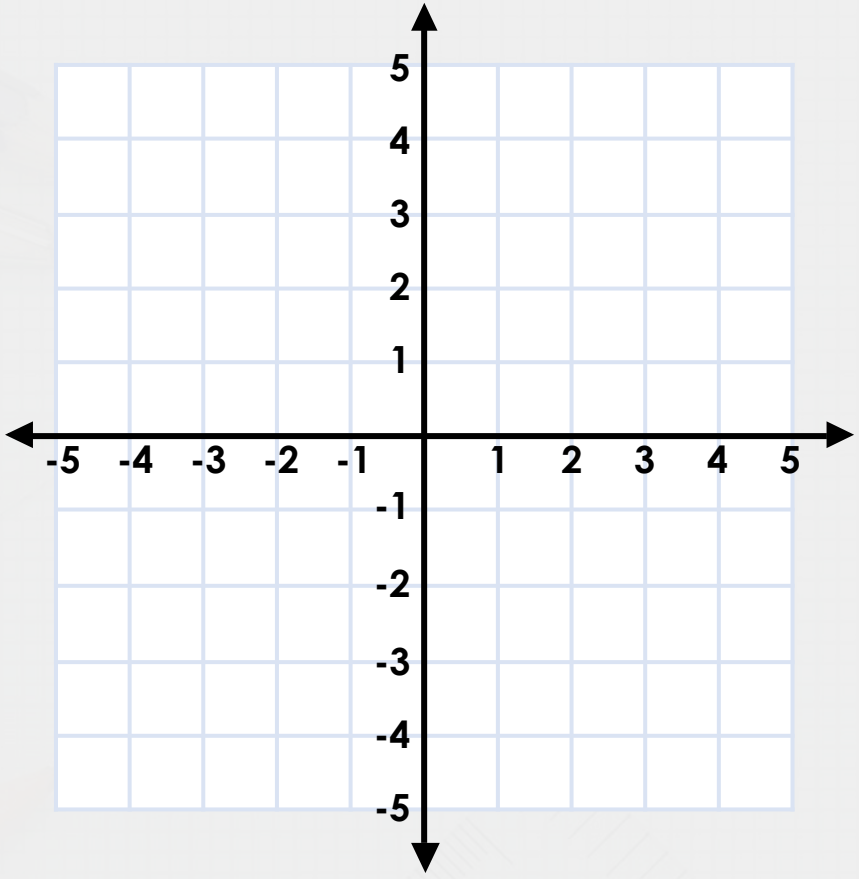
B. (2, -4)

C. (-5, -1)

D. (-4, 4)

Reasoning 1

George thinks that the coordinates below make a square.
Is he correct? Explain why.



(3, 1)

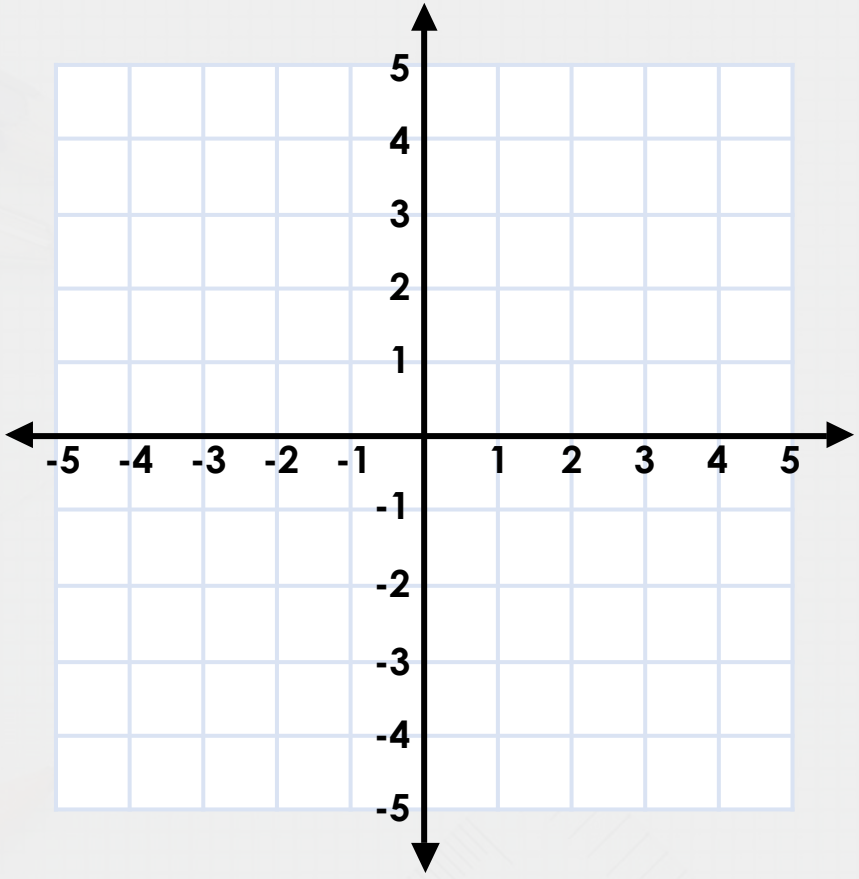
(-1, 1)

(-1, -4)

(3, -4)

Reasoning 1

George thinks that the coordinates below make a square. Is he correct? Explain why.



(3, 1)

(-1, 1)

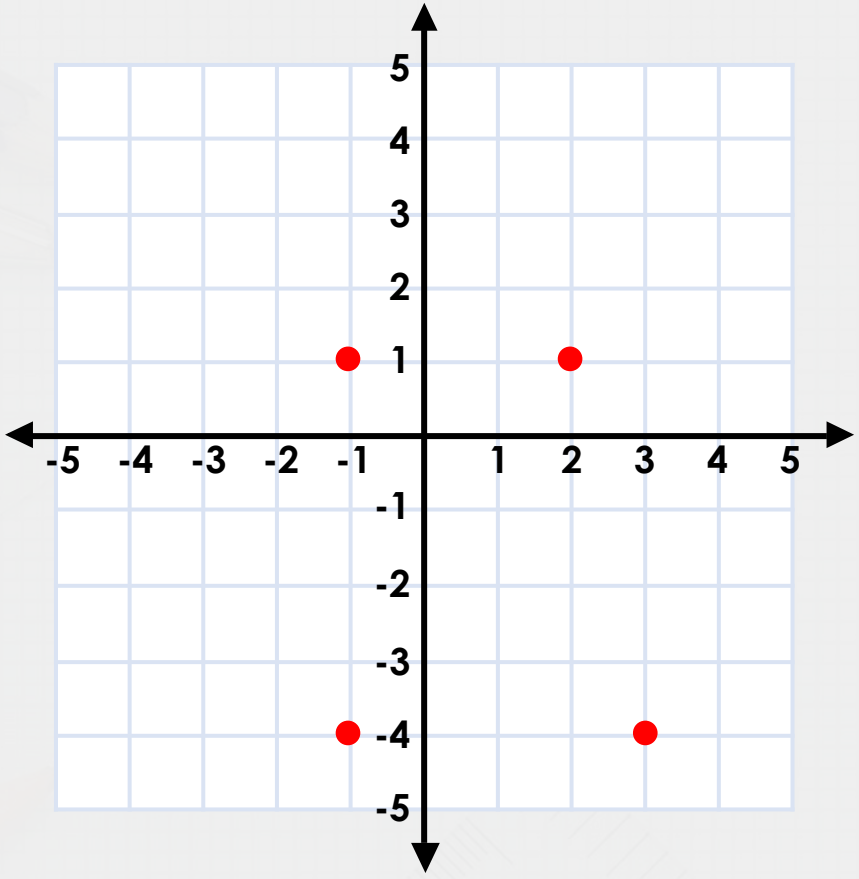
(-1, -4)

(3, -4)

George is incorrect because…

Reasoning 1

George thinks that the coordinates below make a square.
Is he correct? Explain why.



(3, 1)

(-1, 1)

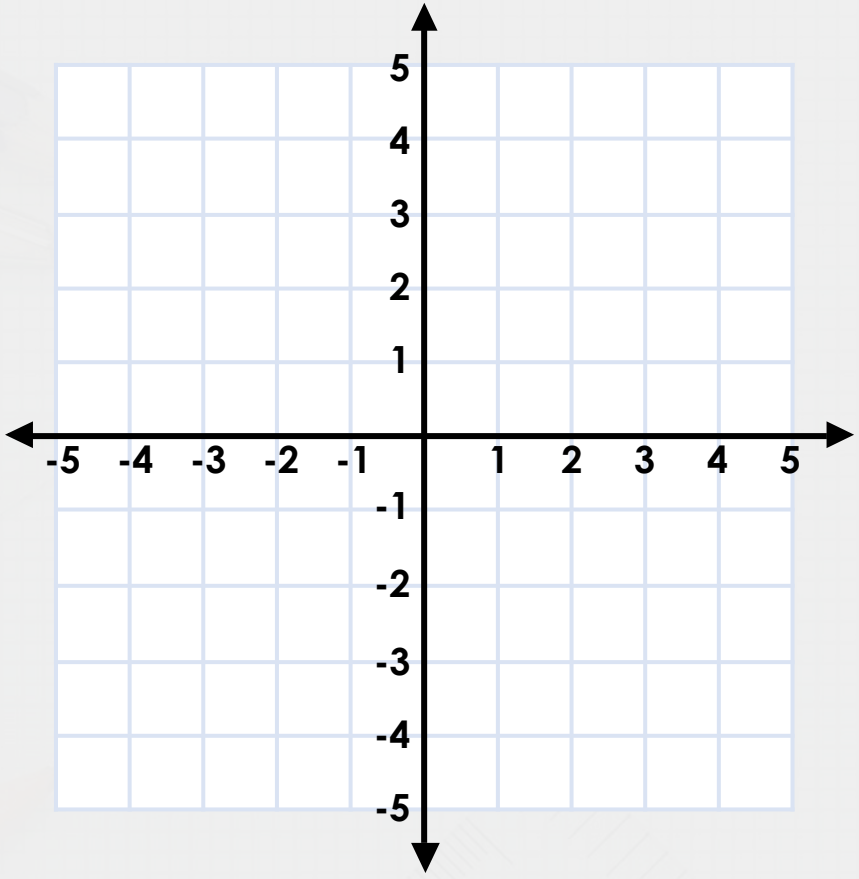
(-1, -4)

(3, -4)

George is incorrect because the coordinates make a rectangle. The coordinates (-1, -4) and (3, -4) should be (-1, -3) and (3, -3).

Problem Solving 1

Follow the clues. What could the missing coordinates of the shape be?



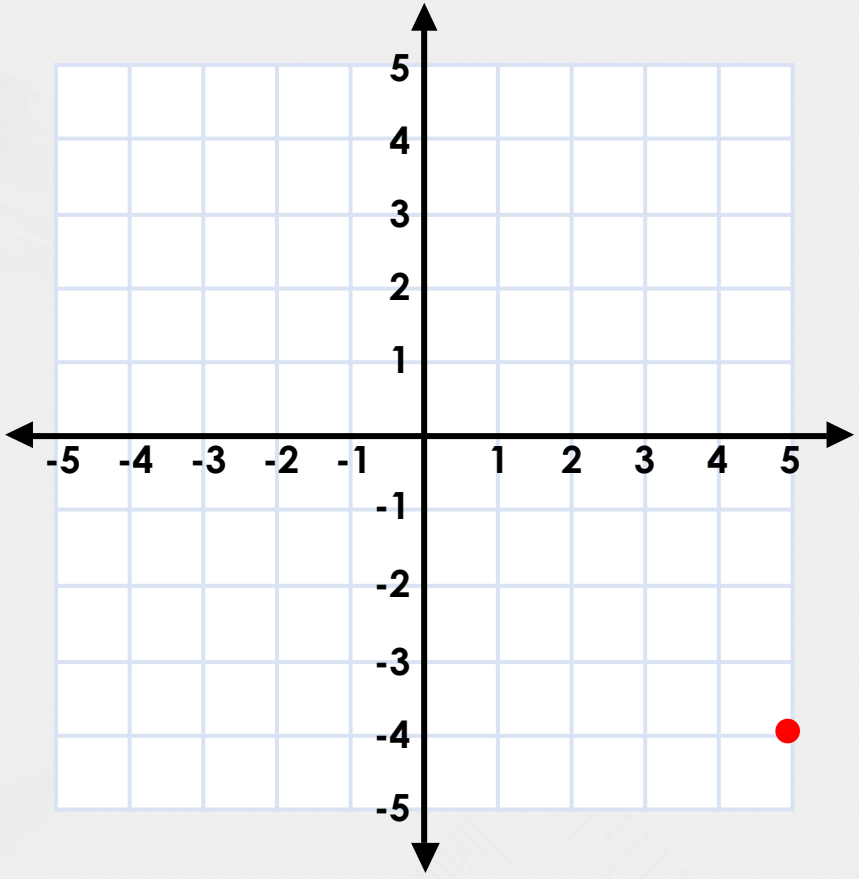
The shape is in four quadrants.

The shape is a rectangle.

One of the points is (5, -4)

Problem Solving 1

Follow the clues. What could the missing coordinates of the shape be?



The shape is in four quadrants.

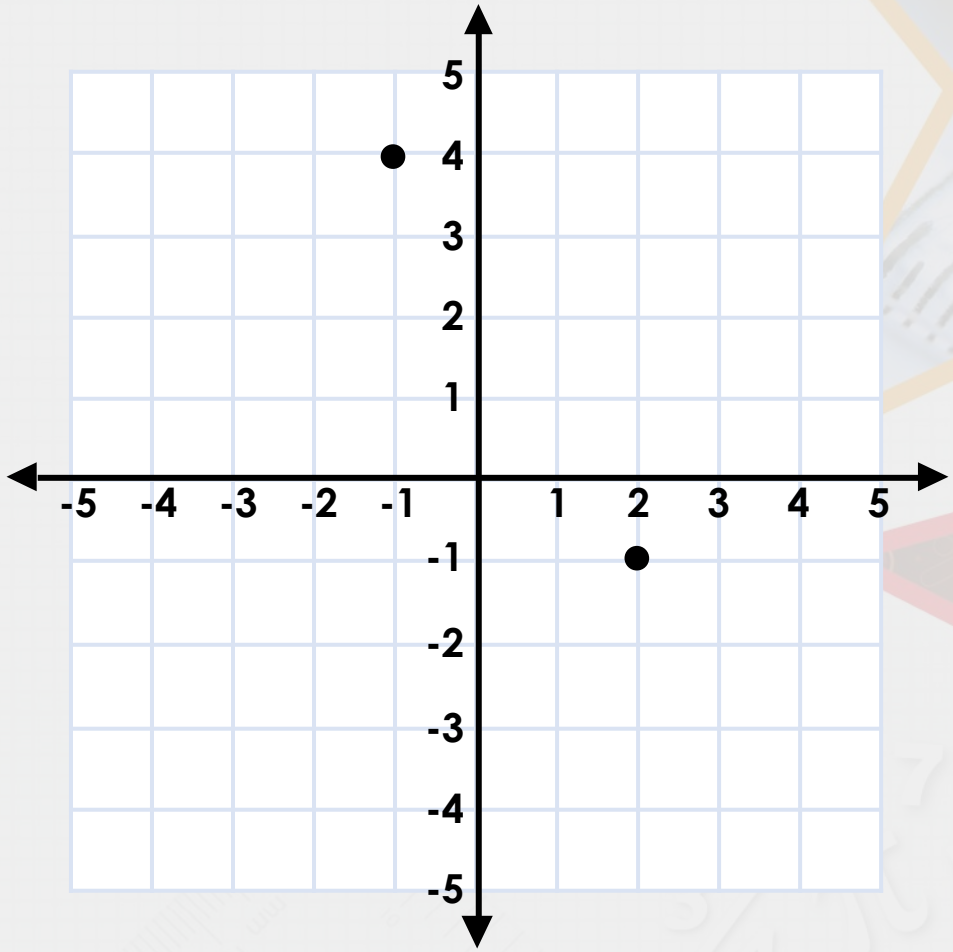
The shape is a rectangle.

One of the points is (5, -4)

Various answers, for example: (-1, -4), (-1, 3), (5, 3)

Problem Solving 2

Layla is plotting the coordinates of a triangle with a vertical line of symmetry. Find the missing coordinate.



Problem Solving 2

Layla is plotting the coordinates of a triangle with a vertical line of symmetry. Find the missing coordinate.